

3.3.5


**NUMBER OF PAPERS IN
NATIONAL/INTERNATIONAL
CONFERENCE**



Content

3.3.5 Number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings per teacher during the last five years

SL NO	ACADEMIC YEAR	DOCUMENTS	NUMBER OF BOOKS PUBLISHED, AND PAPERS IN NATIONAL/INTERNATIONAL CONFERENCE-PROCEEDINGS
1	2017-18	1. Front Page of proceedings of the conference. 2. Content page/abstract of the paper. 3. Certificate	84 PAPERS
2	2016-17	1. Front Page of proceedings of the conference. 2. Content page/abstract of the paper. 3. Certificate	67 PAPERS + 1 BOOK
3	2015-16	1. Front Page of proceedings of the conference. 2. Content page/abstract of the paper. 3. Certificate	46 PAPERS
4	2014-15	1. Front Page of proceedings of the conference. 2. Content page/abstract of the paper. 3. Certificate	NIL
5	2013-14	1. Front Page of proceedings of the conference. 2. Content page/abstract of the paper. 3. Certificate	3 PAPERS


Co-ordinator

Sri Sairam College of Engineering
Anekal, Bengaluru-562106

3.3.5 Number of books and chapters in edited volumes/books published and paper national/international conference proceedings per teacher during the last five year

	EEE	ECE	CSE	Mech	H&S	Total
2013-14	-	-	3	-	-	3
2015-16	7	21	16	2	-	46
2016-17	14	22	11	18	2+1	68
2017-18	12	39	14	10	9	84
2018-19	7	2	1	16	2	28
	40	84	45	46	14	229

66	RAJESH KUMAR .N	nil	MULTIDISCIPLINARY AGRI BOT	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
67	Kalamani P	nil	An Energy saving algorithm using Heterogeneity aware	International journal on	International journal on	international	2017-18	978-1-5090-4715-4	ICISC	ICISC	http://sairamce.edu.in/seminar-conference-iqac/
68	RAJESH KUMAR .N	nil	AUTOMATIC MOBILE RAILWAY BRIDGE	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
69	R.VIJAI	nil	multi purpose solar operated agriculture machine	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
70	VINOD KUMAR BIRADAR	nil	DESIGN AND DEVELOPEMENT OF SINGLE SCREW EXTRUDING	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
71	Dr. Gangavathi P	nil	HOLOGRAPHY	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-3	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
72	Dr. Y Vijay Kumar	nil	studies on tqm practice in small and medium scale enterprises	17c-2017	17c-2017	international	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
73	VINOD KUMAR BIRADAR	nil	A COMPARISON OF BASALT FIBRE WITH SILICA OF	17c-2017	17c-2017	international	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
74	VINOD KUMAR BIRADAR	nil	HEAT DEATH OF UNIVERSE	17c-2017	17c-2017	international	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
75	Prof. Balaji V	nil	Nano Composites and Their Applications	17c-2017	17c-2017	international	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
76	JEYASRI.J	nil	DESIGN AND FABRICATION OF ELECTRO EDUCATION BY ONBOARD DYNAMIC AND	17c-2017	17c-2017	international	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
77	Mrs. Manjula S	nil	Environment-for the servival of Human Paternity	ICASET 18	ICASET 18	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
78	Mr. Venkatesha P	nil	Mathematical Modelling of Population growth	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
79	Mr. Venkatesha P	nil	Mathematical Modelling of Traffic flow on highway	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
80	Mr. Venkatesha P	nil	Mathematical Modelling of Predator-Prey equations	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
81	Mr. Venkatesha P	nil	Mathematical Modelling of Blood Glucose Level by	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
82	Mrs. A Jyothi Sireesha	nil	Nano Technology in Waste water treatment	ICASET-2017	ICASET-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
83	Mrs. A Jyothi Sireesha	nil	Application of Nanotechnology in Design & Material Science Field	ICASET-2017	ICASET-2017	International	2017-18	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
84	Prakash V	nil	Nano composites	ICASET-2017	ICASET-2017	international	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
2016-17											

85	G.V.Raja	nil	Ambubot With Defibrillator For Medical Services In Smart Cities	ICASET-2017	ICASET-2017	international	2016-17	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
86	Halesha H R	nil	Smart Road Sign Detection For Driver Assistance System	ICASET-2017	ICASET-2017	international	2016-17	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
87	Halesha H R	nil	Finger Print Ignition and Security System	ICASET-2017	ICASET-2017	international	2016-17	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
88	Ms.Malini.K.V	nil	Spatika Jala-Dhara" A Portable Water Management System	17c-2016	17c-2016	International	2016-17	978-81-932966-0-14	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
89	Ms.Malini.K.V	nil	Study Of Vector Controlled Induction Motor Using Artificial Intelligence	17c-2016	17c-2016	International	2016-17	978-81-932966-0-14	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
90	Ms.Malini.K.V	nil	Automated Analysis Of Digital Relay Data Based On Expert System	17c-2016	17c-2016	International	2016-17	978-81-932966-0-14	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
91	Ms.Malini.K.V	nil	SCADA In Transmission line	17c-2016	17c-2016	International	2016-17	978-81-932966-0-14	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
92	Ms.Malini.K.V	nil	ANN Control And Comparative Methods For Analogue Switched	17c-2016	17c-2016	International	2016-17	978-81-932966-0-14	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
93	Ms.Gunasekari	nil	Performance Of Wind Energy Conversion Systems	17c-2016	17c-2016	International	2016-17	978-81-932966-0-14	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
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99	Ms.Malini.K.V Ms R.Gunasekari	nil	IOT Based Load Control Hybrid Power System	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
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102	Savitha H.S	nil	Industrial Wireless Sensor Networks:Challenges,Design Principles And Technical Approaches	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
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105	P.Gowri	nil	The Application Of Microelectronics And Nanoelectronics	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
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108	C Sivaprakash	nil	Pliro Foria Systima For Visually Impaired	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
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110	B.Srilatha	nil	Smart Health Care System Using IOT	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/

111	Geetha R	nil	Smart Delivery of Article	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
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114	Dhanya G S	nil	Automatic Voiture Verschelles	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
115	Deepa R	nil	Vehicular Pollution Monitoring System using IOT	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
116	N.Bhuvaneshwari	nil	Noise And Pollution Monitoring System	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
117	Santosh Kumar N	nil	Smart Dustbin	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
118	K P Linija Shylin	nil	Development Of Android Based Remote Acquisition -Kroto Finder	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
119	Geetha R	nil	Recent Developments in Electronics -Nano technology	17c-2016	17c-2016	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
120	Dhanya G S	nil	Nonlinear Passivity Based Controller	17c-2016	17c-2016	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/

121	Saanjanna	nil	Antitheft Control System	17c-2016	17c-2016	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
122	Saanjanna	nil	Internet of Things based architecture of web and smart Home Interface using GSM	17c-2016	17c-2016	International	2016-17	978-81-932966-0-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
123	Lorate shiny	nil	Performance Analysis of Hybrid WDM -FSO System under various weather conditions	17c-2016	17c-2016	International	2016-17	978-81-932966-0-10	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
124	Ragavendra Rao	nil	Implementation of image processing using raspberry pi	17c-2016	17c-2016	International	2016-17	978-81-932966-0-11	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
125	Mr.M.Venkatesh Kumar	nil	An intelligent health care services by using collabarotions between IOT	17c-2016	17c-2016	International	2016-17	978-81-932966-0-12	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
126	P.Kalamani	nil	Global Security Guard	17c-2016	17c-2016	International	2016-17	978-81-932966-0-13	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
127	G.Manjula	nil	Dynamic Scenarios Transformation in software system design	17c-2016	17c-2016	International	2016-17	978-81-932966-0-14	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
128	shanthipriya	nil	Pulse rate variability and blood oxidation content identification using	17c-2016	17c-2016	International	2016-17	978-81-932966-0-15	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
129	Shanthipriya	nil	BarBot-An intelligent Carrier robot	17c-2016	17c-2016	International	2016-17	978-81-932966-0-16	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
130	Sharonroji priya	nil	Smart Guide Extension for blind cane	17c-2016	17c-2016	International	2016-17	978-81-932966-0-16	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
131	Dr.B.Shadaksharappa	nil	Relief algorithm to avoid Black hole assault in AODV Routing for MANET using	17c-2016	17c-2016	International	2016-17	978-81-932966-0-16	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
132	Dr. Y Vijay Kumar	nil	TQM IN SMALL SCALE SECTOR	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
133	RAJESH KUMAR	nil	ULTRA POWER SAVING VEHICLE	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
134	N Rajesh Kumar	nil	Solar Powered Automatic Railway Gate	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
135	VINOD KUMAR BIRADAR	nil	REMOTE CONTROL AEROPLANE	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/

136	VINOD KUMAR BIRADAR	nil	ROAD SWEEPING MACHINE	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
137	Dr. C Anil Kumar	nil	Design and Fabrication of Precision Square Hole Drilling	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
138	Dr. C Anil Kumar	nil	Natural Fiber Metal Laminates an Idea for	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
139	Prof. Balaji V	nil	Autometic Sewage Cleaning Machine	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
140	Prof. Vinod Kumar Biradar	nil	Remote Control Aeroplane	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
141	Prof. N Rajesh Kumar	nil	Ultrapower Saving Vehicle	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
142	Prof. B S Yogananda	nil	Design And Analysis of Quick Change Over for Starter Performance Test	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
143	Prof. B S Yogananda	nil	Automatic Hand Brake Lock and Release Mechanism for Cars	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
144	Prof. Harish Babu L	nil	Design And Fabrication Of Intelligent Wheel Chair	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
145	Prof. Harish Babu L	nil	Fabrication of Solenoid Gear Changer	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
146	Prof. Durai J	nil	Gear System for E-Bike	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
147	Prof. Durai J	nil	Micro Ultrasonic Machining	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
148	Prof. Durai J	nil	Lining suspension	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
149	Prof. Durai J	nil	Automatic Flooring Machine	ICASET-2017	ICASET-2017	International	2016-17	978-81-932966-0-8	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
150	Mrs. B Jyothi	nil	Transfer matrix method for precise determination of thickness in A 150- Ply	i7c-2016	i7c-2016	International	2016-17	978-81-932966	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
151	Mr. Venkatesha P, Dr. Gangavathi P	Additio nal Mathem atics-I		NA	NA	NA	2016-17	978-81-935104-1-4	SSCE	PARAGA PUBLICATION LLP	http://sairamce.edu.in/seminar-conference-iqac/
152	Mrs. J Sasikala	nil	Application of Integral Calculus in Engineering	i7c-2016	i7c-2016	International	2016-17	978-81-932966	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/

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153	K P Linija Shylin	nil	Rfid Based Indoor Positioning System Using Gsm Technology	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
154	N Bhuvaneshwari	nil	Integrated Device Monitoring System	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
155	Gowri P	nil	lot Based Blood Bank	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
156	P Venugopal	nil	Spy Night Vision Robot	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
157	Santhamoorthy S	nil	Zigbee Based Vehicular Information And Communication System	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
158	Santosh Kumar N	nil	Arm Based Automatic Meter Reading And Centralized Control System	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
159	Savitha H.S	nil	Lifi Based Automation Of Toll Gate Using Microcontroller	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
160	Raja G V	nil	A Novel Approach On Mimristor And Its Applications	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
161	Raja G V	nil	Smart And Secure Fuel Distribution System	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/

162	A Poonguzhali	nil	Grape Farmland Monitoring Using Wsn	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
163	Srilatha B	nil	Advanced Railway Automation and ITS Application	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
164	C Sivaprakash	nil	"Sensor Less Virtual Talking System For Differently ABLED"	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
165	C Sivaprakash	nil	Traffic Light Detection For Blind People	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
166	Deepa R	nil	Automatic Farm Protection And Irrigation	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
167	Deepa R	nil	Intelligent Traffic Control System For Congestion Control,Ambulanceclearance And Stolen Vehicle Detection	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
168	Dhanya G S	nil	Subterranean Cavo Delinquency Distanza Locator	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
169	Dhanya G S	nil	A Travelogue Of Var System	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
170	Geetha R	nil	Automatic Detection Of Patholes On Roads To Aid Drivers	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/

171	Halesha H R	nil	Plant Diseases Detection And Automatic Medicining	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
172	Suganya J	nil	wireless Charging Of Phones Using Microwaves	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
173	Aruna R	nil	Detection and Rejection of Fake Notes with in an ATM Machine	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
174	Ms.Malini.K.V Ms R.Gunasekari	nil	The Scability Of Nanaofibres In Energy Stratum"	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
175	Ms.Malini.K.V Ms R.Gunasekari	nil	Krushi Rakshak-GSM Based Field Watcher"	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
176	Ms.Gunasekari Ms. D A Vennila	nil	Simulation of Noise Removal for Cell Phone Network Extender (NE)	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	Kings Engg College,Chennai	http://sairamce.edu.in/seminar-conference-iqac/
177	Ms.Gunasekari	nil	Design Modelling & Simulation of Hybrid Solar - Wind -Baterry -DG Power System	IEEE Sponsored 3rd International Conference On Innovations In	IEEE Sponsored 3rd International Conference	International	2015-16	978-81-929580-50	SSCE	IEEE	http://sairamce.edu.in/seminar-conference-iqac/
178	Ms.Malini.K.V Ms R.Gunasekari	nil	VOV FIERO-A Fire Extinguishing ROB	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
179	B.S Mr.Madhavara o	nil	Voltage Swings Detection Using ARM-Processor &Automation Of Industries Using BLYNKK Cloud Computing Technology	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/

189	saanjanna	nil	Kissan drone-Pesticides spraying drone for agricultural applications	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
190	G.Manjula	nil	Intelligent IOT based Aquaponic system	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
191	Venkatesh Kumar	nil	IOT-android based smart Health care and ambulance automation system	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
192	T.K.Pradeep kumar	nil	Virtual controller -see the world in different way	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
193	P.kalamani	nil	Senior security supervise system	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
194	T.K.Pradeep kumar	nil	Time to change the world around you-Intellectual controller	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
195	Lorate Shiny	nil	Rescue-robot-Alive Human body detection system using an autonomous Mobile robot	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-50	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
196	Mrs K.V.Shalini	nil	Improving data de duplication efficiency by exploiting application awareness	International conference on development in engineering research	IAETSD	International	2015-16	978-1511486-493	Indian Trust Act, 1882	IAETSD	http://sairamce.edu.in/seminar-conference-iqac/
197	Dr. Y Vijay Kumar	nil	THE STATE AND SPECIALITY OF THE AMB FOR THE SMOOTH OPERATION OF WIND POWER PLANT	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-0-5	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/

198	Prof. Balaji V	nil	Pedal Operated Water Pumping System	ICASET-2016	ICASET-2016	International	2015-16	978-81-929580-0-5	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
2013-14											
199	Mrs Sheela Devi	nil	Improved Performance Modeling of Intelligent Alert	ICOAC 13	ICOAC 13	International	2013-14	978-1-4799-3966-4	ANNA UNIVERSITY	IEEE	http://sairamce.edu.in/seminar-conference-iqac/
200	Mrs Sheela Devi	nil	Improved Performance Modeling of Alert Message	ISC-2013	ISC-2013	International	2013-14	978-93-83520-25-1	Karunya University	ISCA	http://sairamce.edu.in/seminar-conference-iqac/
201	Mrs Sheela Devi	nil	Improved Performance Modeling of Intelligent	ICICA-14	ICICA-14	International	2013-14	978-1-4799-3966-4	BHARATHIYA R UNIVERSITY	IEEE	http://sairamce.edu.in/seminar-conference-iqac/

3.3.5 Number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings per teacher during the last five years (6)

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / international	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of	Name of the publisher	Relavant link
2017-18											
1	Ms.Malini.K.V	nil	PLC Based Adaptive Head Light Beam Assisting System	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
2	Ms.Malini.K.V	nil	IOT Based Solar Roof Top Management System	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
3	Ms.Malini.K.V	nil	Evolution of the Performance of BTFCL- BR With Genetic Algorithm for Enchancing the Power Quality of Grid Connected DFIG	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
4	Ms.Malini.K.V	nil	Comprehensive DC Power Balance Management in High Power three Level DC-DC Converter for Electric Vehicle Fast Charging	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
5	Ms.Malini.K.V	nil	Design & Implementation of Seven Level Energy Stored Quasi Z-source Cascaded Multilevel Inverter for PV System Using Fuzzy Logic Controller	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
6	Mr.Gopinath	nil	Implementation of a High Power Factor Hybrid Three Phase Unidirectional Rectifier	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
7	Ms.D A Vennila	nil	Automated energy Saving System Based On Intelligent Control System	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
8	Ms.Mamatha M G	nil	Implementation of Low Cost,Reliable & Head Movement Controlled Wheelchair for Physically Challenged people	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
9	Ms.Mamatha M G	nil	Rectification of Fault Using Recurrent Neural Network Railway Track Circuit	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/

10	Mr.Prashantha K	nil	AC/DC Motor Output Control Using FGPA	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
11	Mr.Prashantha K	nil	Secured Coin Based Cell Phone Charger with RFID	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
12	Mr.Mathudevan V	nil	New Era Method Of Water Pumping For Agri Application	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
13	Geetha R	nil	Spasthart Speed Breakers	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
14	Deepa R	nil	Android Controlled Wildlife Observation Robot	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
15	B.Srilatha	nil	Advanced Driver Assistance System for Pedestrian Crossing Detection	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
16	Halesh H R	nil	Auto Smart Fertilizer	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
17	G.V. Raja	nil	Smart Shopping Cart for Automatic Billing in Supermarket	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
18	C Sivaprakash	nil	An Intelligent Power Shutdown System for Power saving Application	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
19	K.P.Linija Shylin	nil	Smart Helmet for Underground workers	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
20	P.Venugopal	nil	Smart Metro Station for Public Safety	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
21	Aruna R	nil	ATM Security using Fingerprint Authentication and OTP	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
22	Savitha H S	nil	Smart Street Lighting System	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
23	Suganya J	nil	Stabilization of Voltage by using Buck converters for	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
24	Santosh Kumar N	nil	Smart Auto Agricare	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
25	Santha Moorthy S	nil	IOT Based Fault Diagnostic Device for Photovoltaic Panels	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
26	P.Gowri	nil	IOT Based Water Care Center for Lakes in	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
27	C Sivaprakash	nil	Smart RAPID Controller	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/

28	Dhanya G S	nil	Aautomatic Gas Cylinder Management	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
29	A. Poonguzhali	nil	Smart Garbage Detection System Using IOT Through Mobile APP	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
30	C Sivaprakash	nil	Implementation of Rover for MARS Communication	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
31	C Sivaprakash	nil	Design and Implementation of under water Autonomous	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
32	C Sivaprakash	nil	Integration with moisture meter for monitoring stored	ICASET-2018	ICASET-2018	International	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
33	Geetha R	nil	Digital Signal Processing in Advanced Laboratory	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
34	Dhanya G S	nil	Information Security	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
35	A.Poonguzhali	nil	An Innovative Method for Forest Fire Risk Zoning Map	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
36	Santha Moorthy S	nil	Intelligent Controller to Monitor and Control	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
37	B Srilatha	nil	Extraction of Exudates from Retinal Images Using	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
38	J.Suganya	nil	Analysis of Microgrid	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
39	P.Gowri	nil	Fatigue Monitoring of Aged People using EYE Tracker	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
40	C Sivaprakash	nil	Knowledge Based Secure Dynamic Cache Update For	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
41	Aruna R	nil	Application of power electronics in transmission	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
42	Bhuvaneshwar i N	nil	Home Automation Using Iot	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
43	Bhuvaneshwar i N	nil	Vision Based Rail Inspection Systems	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
44	R D Vidyarani	nil	New Technology under Real-Time Eye Tracking	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
45	G.V. Raja	nil	Evbot with Defibrillator for medical services in smart	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
46	R.Deepa	nil	Home Security Through Digital Image Processing	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/

47	K.P.Linija Shylin	nil	Predictive Energy Efficient Technique for Objects	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
48	P.Venugopal	nil	Detection of Lung Cancer using Digital Image	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
49	Santosh Kumar N	nil	Different ADC Architecture Suitable For Your	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
50	Savitha H S	nil	An Efficient Automatic Method of Optic Disc	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
51	Geetha R	nil	Fire Fighting Robotic Vehicle	17c-2017	17c-2017	International	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
52	Dr. B. Shadaksharapp	nil	EDUSCIENZA-Smart Learning Using Augmented	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
53	Mr. Raghavendrara	nil	Global Bus monitoring and alert system	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
54	Mr. Raghavendrara	nil	SIRASTRANA-A smart Helmet for Air Quantity and	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
55	G.Manjula	nil	Automatic Pill dispenser	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
56	T.K.Pradeep Kumar	nil	Dustless Environment using NEAGH Device	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
57	Rejithomas	nil	Head Movemet Controoled system to Assist the	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
58	Sharonroji priya	nil	Vehicle Accident detection using blackbox system	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
59	Bindhu Madhavi	nil	SAMARTHYAM-Advance footstep power generation	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
60	Nisha.M.s	nil	A Smart Initiatives for automobiles and road safety	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
61	Sowmya.m	nil	Krushu Roboter-Future Farmers friend	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
62	Divyaprabha	nil	Nivartaka-an ecofriendly multipurpose Vehicle	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
63	Shalini K.V	nil	Hand Gesture Based survivellence robot	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
64	Pradeepa.C	nil	Electronic health care consultation system	17c-2017	17c-2017	international	2017-18	978-81-932966-3-9	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
65	R.VIJAI	nil	automatic leg up landing system	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/

66	RAJESH KUMAR .N	nil	MULTIDISCIPLINARY AGRIBOT	ICASET-2018	ICASET-2018	international	2017-18	978-81-937041-7-2	SSCE	IFERP	http://sairamce.edu.in/seminar-conference-iqac/
67	Kalamani P	nil	An Energy saving algorithm using Heterogeneity aware	International journal on	International journal on	international	2017-18	978-1-5090-4715-4	ICISC	ICISC	http://sairamce.edu.in/seminar-conference-iqac/
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PLC Based Adaptive Headlight Beam Assisting System

Malini K.V., HOD, Electrical and Electronics Engineering, Bangalore.

Rakshith kumar Naik., Electrical and Electronics Engineering, Bangalore

Mithun.V., Electrical and Electronics Engineering, Bangalore

Vijay kumar M G., Electrical and Electronics Engineering, Bangalore

Kishor Kumar K., Electrical and Electronics Engineering, Bangalore

Abstract:--

Headlight of vehicle poses a great danger during night driving. Drivers use automatic headlight mode so high beam and low beam switching takes place based on oncoming vehicle. Even though accidents are happening at highway during night travel because of high beam Glaring effect and low beam improper vision. When opposite vehicle crosses for a while at dark night situation like hilly road, curve road, rainy, foggy situation driver hit the obstacle, another vehicle and even pedestrian. Present headlamp mechanism uses microprocessor/microcontroller/mini computer controlled Camera based image processing, titling of headlamp, matrix headlamp system. These mechanism of control is costly and each functionality of car (tilting of headlamp, collision avoidance, security feature etc.)Require individual embedded system and So project depicts explore of concept PLC based Adaptive headlight beam assisting system which clearly depicts usage of PLC can be used for controlling one of functionality of car(adaptive headlight). So further multiple feature of vehicle is controlled through single PLC beside using individual embedded system.

Index Terms:--

PLC Head light

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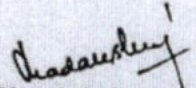
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Iot Based Solar Roof Top Management System

Malini K.V., HOD, Electrical and Electronics Engineering, Bangalore.

Saiprasad K.V. ., Electrical and Electronics Engineering, Bangalore.

Mubarak.S., Electrical and Electronics Engineering, Bangalore.

Hitesh Kumar Chodhary ., Electrical and Electronics Engineering, Bangalore.

Firoz Khan., Electrical and Electronics Engineering, Bangalore.

Abstract:--

Solar energy generation requires efficient monitoring and management in moving towards technologies for net-zero energy buildings. This paper presents a dependable control system based on the Internet of Things (IoT) to control and manage the energy flow of renewable energy collected by solar panels within a micro grid. Data for optimal control include not only measurements from local sensors but also meteorological information retrieved in real-time from online sources. For system fault tolerance across the whole distributed control system featuring multiple controllers, dependable controllers are developed to control and optimise the tracking performance of photovoltaic arrays to maximally capture solar radiation and maintain system resilience and reliability in real time despite failures of one or more redundant controllers due to a problem with communication, hardware or cyber security. Experimental results have been obtained to evaluate the validity of the proposed approach

Index Terms:--

Solar tracking, solar energy, dependable control, Internet of things.

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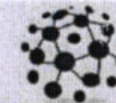
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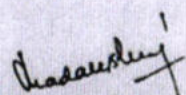
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Evolution of the Performance of BTFCL-BR with Genetic Algorithm for Enhancing the Power Quality of Grid Connected DFIG

Velappagari Sekhar., Associate Professor, Dept of Electrical & Electronic Engineering, Kuppam Engineering College, Kuppam, Andhra Pradesh, India

Dr.K.Ramesh., Professor, Dept of Electrical & Electronic Engineering, Kuppam Engineering College, Kuppam, Andhra Pradesh, India

V.Srimaheswaran., Assistant Professor, Dept of Electrical & Electronic Engineering, Kuppam Engineering College, Kuppam, Andhra Pradesh, India

Malini.K.V., Asst. Prof. & HOD, Department of EEE, Sri Sairam College of Engineering.

Abstract:--

Performance of Bridge Type Fault Current-Limiter with Bypass Resistor (BTFCL-BR) for enhancing the power quality of Grid connected Double Fed Induction Generator (DFIG) is evaluated in this paper. The normal BTFCL can enhance the power quality of DFIG. However, the Fault current limiting Inductor (FCLI) is periodically inserted into the stator circuit of DFIG under normal operation for compensating power losses of the FCLI. The insertion of the FCLI induces stator voltage spikes, which causes significant Electromagnetic torque oscillations and stator flux. One feasible way to solve this problem is to use a BTFCL-BR with GA (Genetic Algorithm) is presented to the Bypass Resistor (BR) absorbs the majority of current harmonics during normal operation and eliminates the stator voltage spikes. The electromagnetic torque as fluctuations and flux can be significantly reduced. The performance of BTFCL-BR with Genetic Algorithm is evaluated by simulating on a typical 1.5MW wind turbine driven DFIG system. By simulation evaluation it seems that the BTFCL-BR with GA approach is the most promising solution among common BTFCL.

Index Terms:--

Double Fed Induction Generator (DFIG), Bridge type fault current-limiter with Bypass Resistor (BTFCL-BR), Genetic Algorithm (GA), Fault current limiting Inductor (FCLI).

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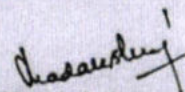
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Comprehensive DC Power Balance Management in High-Power Three-Level DC-DC Converter for Electric Vehicle Fast Charging

Marripati Kiran Kumar., Dept. of Electrical & Electronics Engineering, Kuppam Engineering College, A.P, India.

J C Balachandra., Assistant Professor, EEE Dept. Kuppam engineering college, A.P,India.

Malini., HOD of EEE Dept., Sri Sairam engineering college, Anekal, India.

Abstract:--

With the increasing popularity of electric vehicles, there is an urgent demand to shorten the charging time, so the development of high-power charging stations with fast chargers is necessary to alleviate range anxiety for drivers. The charging station based on the neutral-point-clamped (NPC) converter can bring many merits, but it has unbalanced power problems in the bipolar dc bus. To solve this issue, comprehensive dc power balance management (PBM) in conjunction with high-power three-level dc-dc converter based fast charger is proposed in this paper. The active dc power balance management (APBM) is proposed to assist the central NPC converter in balancing power so that the additional balancing circuit is eliminated; while the passive dc power balance management (PPBM) is proposed to eliminate the fluctuating neutral-point currents and to ensure the balanced operation of fast chargers. The principles of APBM and PPBM are researched, the efficient integration between them is studied, and the overall control scheme for the fast charger is proposed. The power balance limits of APBM are explored, while the circulating currents of PPBM are analyzed. Simulation and experimental results are presented to verify the effectiveness of the proposed fast charger with PBM functions.

Key Terms:--

Dc power balance management, electric vehicles, fast charger, plug-in hybrid electric vehicles, three-level dc-dc converter.

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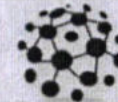
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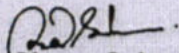
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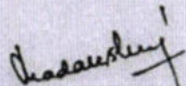
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IN HIGH-POWER THREE LEVEL DC-DC CONVERTER
FOR ELECTRIC VEHICLE FAST CHARGING** during
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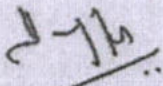

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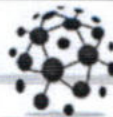



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Design and Implementation of Seven-level Energy Stored Quasi Z-Source Cascaded Multilevel Inverter for PV systems Using Fuzzy logic controller

D. Umamahewari, Dept. of Electrical & Electronics Engineering, Kuppam Engineering College, A.P, India.

V.Sekhar., Assistant Professor, EEE Dept. Kuppam engineering college, A.P,India.

Malini., HOD of EEE Dept., Sri Sairam engineering college, Anekal, India.

Abstract:--

This Paper represents of PV based seven-level Quasi Zsource inverter (QZSI). PV is mathematically modeled along with maximum power point tracking (MPPT).The quasi-Z-source cascade multilevel inverter (qZS-CMI) presents many advantages over conventional CMI when applied in photovoltaic (PV) power systems. For example, the qZS-CMI provides the balanced dc-link voltage and voltage boost ability, saves one-third modules, etc. However, the qZS-CMI still cannot overcome the intermittent and stochastic fluctuation of solar power injected to the grid. This paper proposes an energy stored qZS-CMI-based PV power generation system. The system combines the qZS-CMI and energy storage by adding an energy stored battery in each module to balance the stochastic fluctuations of PV power. This paper also proposes a control scheme using Fuzzy logic for the energy stored qZS-CMI-based PV system. The proposed system can achieve the distributed maximum power point track for PV panels, balance the power between different modules, and provide the desired power to the grid. The method of controller parameters is disclosed, Simulations of the circuit have been executed in MATLAB/Simulink and the results were verified using fuzzy logic controller.

Keywords:--

quasi-Z source inverter (qZSI), Maximum power point tracking (MPPT), Cascade multilevel inverter (CMI), energy storage, photovoltaic (PV) power generation.

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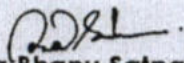
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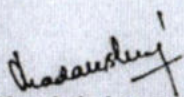
his/her research paper titled **DESIGN AND IMPLEMENTATION OF SEVEN-LEVEL ENERGY STORED QUASI Z-SOURCE CASCADED MULTILEVEL INVERTER FOR PV SYSTEM USING FUZZY LOGIC CONTROLLER** during

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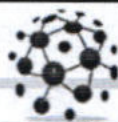



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**Implementation of a High-Power-Factor Hybrid Three-
Phase Unidirectional Rectifier**

Gopinath K., Asst. Professor, Department of EEE, Sri Sairam College of Engineering, Bengaluru.

Asha.K., UG Students, Sri Sairam College of Engineering, Anekal, Bengaluru.

Arun.P.K., UG Students, Sri Sairam College of Engineering, Anekal, Bengaluru.

Balaji Rao., UG Students, Sri Sairam College of Engineering, Anekal, Bengaluru.

Gourav Thakur., UG Students, Sri Sairam College of Engineering, Anekal, Bengaluru.

Abstract:--

This paper describes the conception and analysis of a unidirectional hybrid three-phase rectifier suitable for medium-and high-power applications. The rectifier is composed of a single-switch diode bridge boost-type rectifier in parallel with a pulse width modulation (PWM) three-phase unidirectional boost rectifier. The objective is to obtain a structure capable of providing sinusoidal input currents with low harmonic distortion and dc output voltage regulation. The diode rectifier operates at low frequency and has a higher output power rating. Therefore, the PWM unidirectional rectifier is designed to operate with a small power rating and at a high switching frequency. The total harmonics distortion of the proposed structure varies between 0% and 32%, depending only on the amount of power processed by the PWM three-phase unidirectional rectifier. The rectifier topology conception, principle of operation, control scheme, and simulation and experimental results of a 20-kW laboratory prototype are also presented in this paper.

Index Terms:--

High-power application, hybrid rectifier, power factor improvement, pulse width modulation (PWM) unidirectional rectifier.

16th - 17th November 2017

i7C - 17

ISBN: 978-81-932966-3-9

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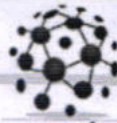



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Automated Energy Saving System Based on Intelligent Control System

Devaraj S M, UG Scholar, EEE Department, Sri SaiRam College of Engineering, Bengaluru.

Pradeeshan K., UG Scholar, EEE Department, Sri SaiRam College of Engineering, Bengaluru .

Mallikarjun reddy., UG Scholar, EEE Department, Sri SaiRam College of Engineering, Bengaluru.

Mohammed abreeth M., UG Scholar, EEE Department, Sri SaiRam College of Engineering, Bengaluru.

Vennila D A., Asst professor, EEE Department, Sri SaiRam College of Engineering, Bengaluru.

Abstract:--

To fulfill the energy demand of day to day life an automatic control system is designed based on Programmable logic controller and frequency converter in the central air-conditioning energy saving system in new applications, based on the water cooling, cooling, air conditioning cooling tower fan system intelligent transformation, realize the conversion of energy, as the basic ideas and goals, through the optimization of the traditional PID technology. The refrigeration system, the new system in adjusting parameters and frequency temperature more convenient, and analyzes the significance and value of the new system in the practical application through specific case.

Index Terms: -

centralized air conditioning; programming logic controller, PID

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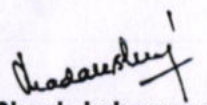
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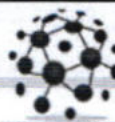

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Implementation of Low cost, Reliable and Head movement controlled Wheelchair for Physically Challenged people

Prof. Mamatha G M., Assiatant Professor, Electrical and Electronics Engineering Department, Sri Sairam College of Engineering,
Anekal

Divakara A P., U G Scholar, Sri Sairam College of Engineering, Anekal

Chandrashekar., U G Scholar, Sri Sairam College of Engineering, Anekal

Legeswaran V., U G Scholar, Sri Sairam College of Engineering, Anekal

Teli Rekha Appasaheb., U G Scholar, Sri Sairam College of Engineering, Anekal

Abstract:--

An automated system is developed to control the motor rotation of a wheelchair based on the head movements of a physically challenged person sitting on a chair. The people who are affected by diseases like (loss of limbs-legs/hands, due to accidents or by birth) that they cannot move their body parts except their head. In order to facilitate these people for their independent movement a wireless head movement control system has been designed and implemented. An accelerometer is fixed on the persons head, based on the head movement the accelerometer drives the wheelchair.

Index Terms:--

Head movement controlled wheelchair, accelerometer, Arduino UNO board, high torque motors, ASK Transmitter and Receiver, Motor drive circuit, Joystick.

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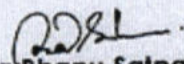
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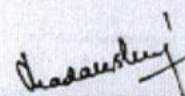
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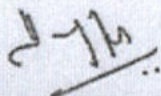

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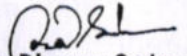
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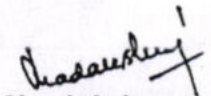
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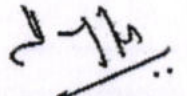

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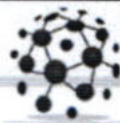



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AC/DC Motor Output Control Using FPGA

Prashantha.K., Asst Prof, Electrical And Electronics Engineering Department,SSCE,Bangalore INDIA.

Sreenath H V., Electrical And Electronics Engineering Department,SSCE,Bangalore INDIA

Vinayak P V., Electrical And Electronics Engineering Department,SSCE,Bangalore INDIA

Venkatesh S., Electrical And Electronics Engineering Department,SSCE,Bangalore INDIA

Tasmiya Tabbusum., Electrical And Electronics Engineering Department,SSCE,Bangalore INDIA

Abstract:--

DC motor had been used in many applications. In some applications the control of DC Motor speed is a deal breaker. These applications require a very tight speed controlling to avoid serious problems. There are various ways to control the speed of motor. The process of developing any solution to a certain problem should go through three steps. The first step is to simulate the problem and try to find the solution. The second one is to verify that your solution is really working before you try it on real-time problems. The last step is to validate your solution on real-time measurements. In this paper we studied the problem, analyzed it, and we found the solution and did simulation to check its outcomes. Our goals in this paper are to verify our solution and implement it using Field-Programmable Gate Arrays (FPGAs). FPGAs must be programmed using Hardware Description Language (HDL).Xilinx had been used to control speed the simulation done using real time measurements using FPGA for step response of the system using MATLAB/SIMULINK and PSIM.

Index Terms:--

DC Motor, speed control, FPGA, modeling and simulation

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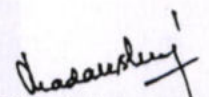
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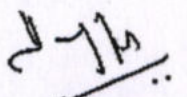

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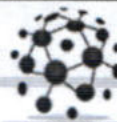

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Secured Coin Based Cell Phone Charger with RFID

Prashantha.K., Asst. Professor, Dept of basic Science, SSCE ,INDIA

Sangamesh., Dept of basic Science, SSCE ,INDIA

Praveen Kumar., Dept of basic Science, SSCE ,INDIA

Ruchitha.C., Dept of basic Science, SSCE ,INDIA

Rashmi K., Dept of basic Science, SSCE ,INDIA

Abstract:--

In this project, a coin based secured cell phone charger with RFID is designed for public people use. Cell phone charger is also provided with RFID for mobile security. Many times the mobile battery becomes low down or lifeless in the middle of the talk. When right to use to standard phone charger and availability of grid power supply is not convenient, in such cases this coin based secured cell phone charger with RFID is very much useful. The coin based secured cell phone charger works in accordance with programming written in the "PIC C". When a coin is inserted, the microcontroller will detect the input. The controller reads the program written in 'c'. The tray placed to facilitate the charging of the mobile is opened which contains RFID card for mobile security and multi pin charger. Mobile is placed in the tray and the tray is closed within the time that is written in the code. Meanwhile relay switches multi pin charger. The time period depends on the coding written in the controller. With the help of multi pin charger we can charge different mobiles. And by providing two or more trays it is possible to charge more than one mobile at a time. After the time of charging is completed the customer can punch RFID card to the RFID reader and can withdraw the mobile from the tray.

Index Terms:--

coin, mobile, RFID

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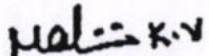
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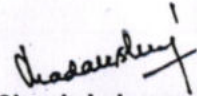
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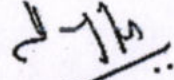

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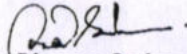


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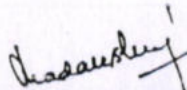
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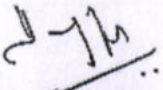

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Sri Sairam College of Engineering
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Dr. B. Shadaksharappa
Program Chair
Head of the Department
Dept. of Computer Science & Engineering
Sri Sairam College of Engineering
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Spashtart Speed Breakers

Geetha R., Assistant Professor, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Prajwal H M., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

S Jayanth., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Abarna.R.J., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Punithkumar N., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Abstract:--

The concept of this project is to have an automatic speed breaker on time demand according to the requirements. Means when there is no need of the speed breaker on the road, it disappears from the road and the road becomes flat and when there is a need then the breaker comes on the road from ground and it starts its working of slowing speed of the vehicles. In implementation of this concept, we use an iron made hemi-cylindrical speed breaker which can rotate itself using control circuitry of embedded systems. So, when needed it comes on the road by rotating itself from flat position and when not needed, it rotates itself again and gets flat and combines with flat road. Here we are using two IR sensors, first sensor is used to detect the speed of the vehicle and gives warning. Based on the speed of the vehicle the second sensor rotates the hump. So, this type of speed breaker is useful before any building for which the time is specified for coming in the building and going out from it e.g. schools, any organization etc.

Key words:--

Embedded System; Automatic Speed Breaker, ATMEL89S52.

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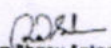
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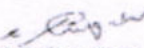
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

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Android Controlled Wildlife Observation Robot

Deepa.R., Assistant Professor, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalor.

Neha.M., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalor.

H.Akash Deepak., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalor.

Shivakumar S., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalor.

Namrata.B., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalor.

Abstract:--

A robot is usually an electro-mechanical machine that is guided by computer and electronic programming. Many robots have been built for manufacturing purpose and can be found in factories around the world. Designing of the latest inverted ROBOT which can be controlling using an APP for android mobile. We are developing the remote buttons in the android app by which we can control the robot motion with them. And in which we use Bluetooth communication to interface controller and android. Controller can be interfaced to the Bluetooth module though UART protocol. According to commands received from android the robot motion can be controlled. The consistent output of a robotic system along with quality and repeatability are unmatched. Pick and Place robots can be reprogrammable and tooling can be interchanged to provide for multiple applications.

Key words:--

Android Smartphone, Bluetooth module, robot, single microcontroller chip.

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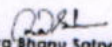
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

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Advanced Driver Assistance Systems for Pedestrian Crossing Detection

B.Srilatha., Assistant Professor, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore.

Ramyasri R., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Gnanesh Kumar K., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

R. D. Vidya Rani., Assistant Professor, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore.

Abstract:--

Pedestrian crossing has been the major purpose behind person on foot and vehicle crashes during nights as well as in highways, this project is focused on identifying the obstacle crossing for supporting an advanced driver assistance system utilizing an IR sensor mounted on vehicle. In this paper, a particular issue is addressed, which can hugely affect person's lives. To be particular, the discovery of sudden walker intersection to help drivers in maintaining a strategic distance from mishaps. This is mainly concentrated on the Indian sedan cars and their safety with affordable price & device that can be installed in all type of cars. IR sensors are used for the detection of pedestrian crossing which plays a vital role in paper proposed. In case of rash driving on unbalanced roads, the speed of the motor gets dropped down by the accelerometer. When the driver is drunk he will not be able to drive the vehicle when the alcohol content exceeds the limit which stops the engine further. Buzzer used here gives the alert in all kinds of this situation so that can drive the vehicles harmlessly on roads. Here car reduces its speed automatically when it detects the object passing through the vehicle even when driver is in absent mood or uncontrollable condition. When the vehicle is moving on the steep or sloppy roads, sometimes it might lead to accidents due to imbalance of the vehicle. This kind of consequences are also handled and overcome. Hence avoids accidents.

Keywords:--

Literature review, project methodology, components required, conclusion, future enhancement references.

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


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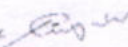


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

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Auto-Smart Fertilizer

Halesha H R., Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Kavya G K., Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Kavya D S., Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Kavyashree N V., Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Manjushree B R., Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Abstract:--

Country like India, the economy is heavily dependent on agriculture. Still we are not able to make optimal, profitable and sustainable use of our agricultural land. Crop production is strongly influenced by soil properties, rooting depth, nutrition and their interaction with climate. For new agricultural area, without knowing or monitoring the important parameters of soil, cultivation will be difficult and so the farmers suffer financial losses. Soil testing is the basis for nutrient recommendation and formulated fertilization. Soil test will help to ensure the application of enough fertilizer to meet the requirements of the crop. The farmers find it difficult to know the proper amount of fertilizer which is required for particular type of crop which yields better productivity. Development of agriculture using technology will be very much useful in cultivation. The main target of our work is to develop a device which continuously monitors soil fertility and provides sufficient fertilizer required.

Key words:--

Rapitest device, Microcontroller, LCD display, Relay.

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
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

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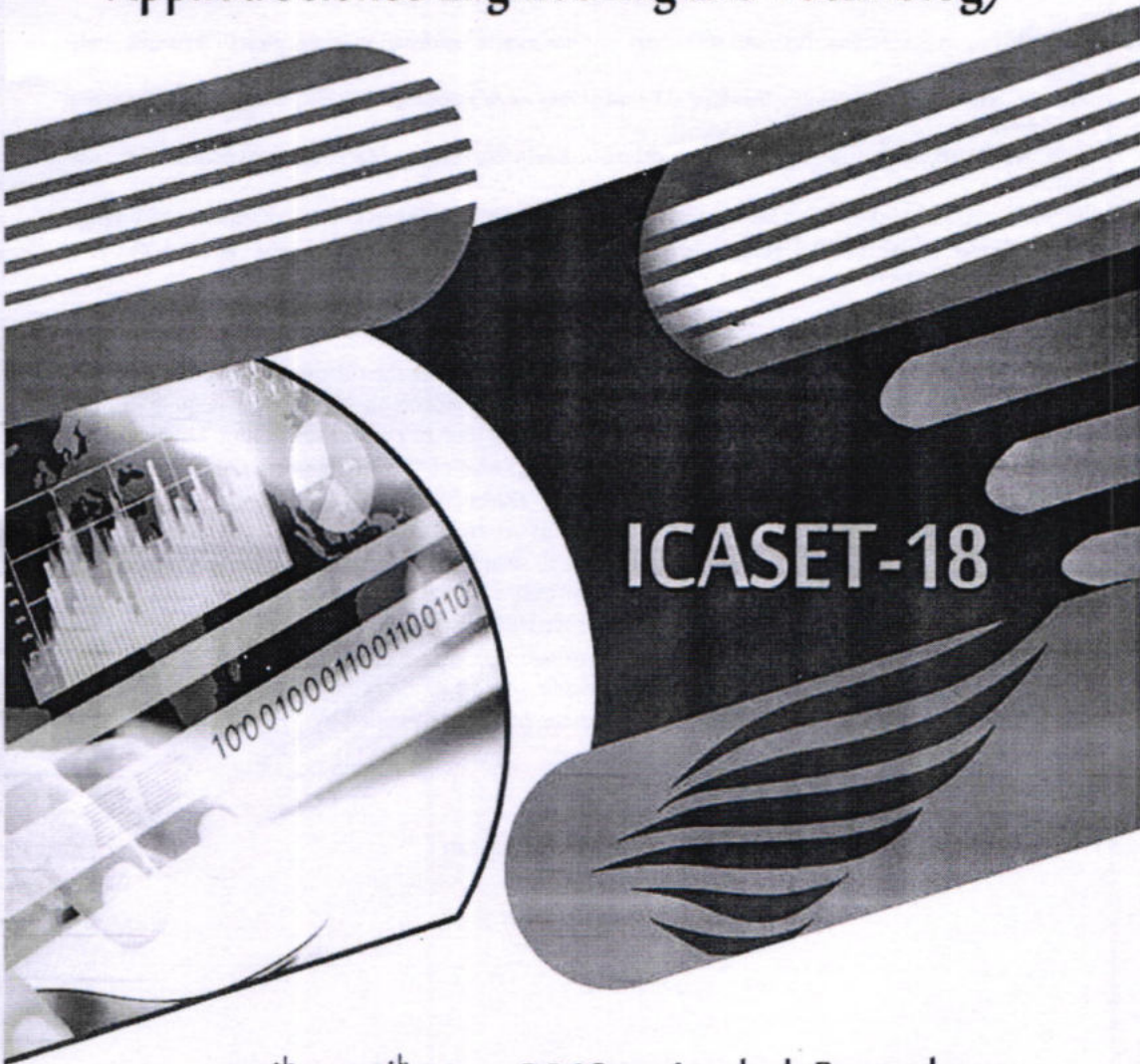
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Smart Shopping Cart for Automatic Billing in Supermarket

G V Raja., Assistant Professor, Department of Electronics and Communication Engineering, Sri Sairam College Of Engineering, Anekal Bengaluru.

Manoj Kumar S., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College Of Engineering, Anekal Bengaluru.

K N Kashyap., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College Of Engineering, Anekal Bengaluru.

Kiran S., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College Of Engineering, Anekal Bengaluru.

Mohammad Ibrahim., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College Of Engineering, Anekal Bengaluru.

Abstract:--

A supermarket is a place where customers come to purchase their daily using products and pay for that. Billing in supermarket takes lot of time. Billing of products in supermarket is quite difficult because it takes more time as people have to wait for a long time in a queue for billing. Looking at the advancement in technology, we came up with an innovative idea of "Smart Shopping Cart for Automatic Billing in Supermarket". This project consists of RFID reader, motion detector sensor, Liquid Crystal Display, push buttons, switches and WIFI module. In this system product in the mart will have RFID tag, and every cart will have RFID reading. The user have to scan the Smartphone with the shopping APP to select the trolley. When a user put some product in trolley then its code will be detected using RFID reader and cost of a product added to the list and sensor will sense the direction of motion of the product for fault detection. In case, if user wants to remove some product then user should press the remove switch and product code will be detected by RFID reader. At last, while exiting the supermarket, RFID at the exit will detect the cart and the user have to scan the Smartphone with the APP for billing for paying the bill and open the gate.

Key words:--

RFID Tags, RFID Reader, Anti-Theft, smart shopping cart.

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
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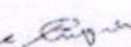


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

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An Intelligent Power Shutdown System for Power Saving Applications

N. Bhuvaneshwari., Assistant Professor, Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore

C. Sivaprakash., Assistant Professor, Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore

Abinaya shree.G., UG Scholars, Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore

Malai Selvan.G., UG Scholars, Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore

Ranjith.Y., UG Scholars, Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore

Abstract:--

The purpose of this project is to save the power used in places like libraries, schools, colleges, offices, large institution etc. where lots of power is wasted unnecessarily by keeping the fans and lights ON even when there is no one present. Thus, using a simple sensor called Passive Infrared (PIR) Sensor, it can be used to save the power. When a person enters the monitored area, the Infrared energy emitted from the living body is focused by a Fresnel lens segment and the PIR sensor activates, and gives to the microcontroller which acts as a power saving device. In case if there is no movement of a person (say sleeping or meditating) then for the light and fan to be switched on we use body sensor to detect the body temperature and switches the appliances accordingly. We also use two different sensors namely LDR(light dependent resistor) and temperature sensor, for turning ON/OFF the light and fan in a room. In addition to this power saving system we include a system in case of any gas leakages in a room(say kitchen where gas cylinders are used) using a gas leakage detection sensor. Here we not only detect but also control the leakage using a servo motor. All these functions can be controlled, monitored and updated to a centralized system using the IOT platform, where we can get the status of the room consuming the power, the gas leakage detection notified and control the usage of power in a room in a centralized device. Thus, this article discusses the concept of how PIR sensor works to save the energy, control energy and also the concept of controlling gas leakages. Moreover, as there is need to save the energy as much as possible so as to meet the future generation, this proposed model would be a great aid to the society.

Key words:--

PIR Sensor, Alarm or Buzzer, Node MCU (Microcontroller), Internet of things, relay, appliances.

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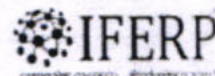
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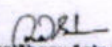
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


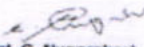
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

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Smart Helmet for Underground Workers

K.P Linija Shylin., Assistant Professor, Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore

Prathap B.P., UG Scholars, Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore

Sindhu R., UG Scholars, Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore

Sushmitha B.R., UG Scholars, Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore

Swati Nagaraj Mesta., UG Scholars, Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore

Abstract:--

A classic model of the smart helmet has been developed for the underground works in order to detect hazardous events in the underground works. The developed prototype is able to sense the quality of air, temperature, removing the helmet by worker. The air quality is determined by the saturation level of the dangerous gas such as carbon monoxide. The removal of helmet by worker is also considered as one of the unsafe event and it is detected by using Infrared (IR) sensor. Implementation consists of two modules- the helmet module and reporting (or monitoring) module. The helmet module includes ATmega328p microcontroller in conjunction with various sensors and IoT module.

Key words:--

IoT and wireless sensor network.

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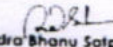
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
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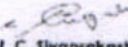
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

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Smart Metro Station for Public Safety

P.Venogopal., Assistant Professor, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore.

Gayithri S P., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Pavithra N., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Prakruthi P., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Sangeetha V., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Abstract:--

This project presents a system, which provides a safe and secure environment in the metro station. Automatic monitoring of train movement and performance removes any possibility of human error which can happen in normal railway working. Here we are Monitoring the train and opening the pathway to people once the train had reached the metro station so the people can get into the train safely. We are using LPC2148 microcontroller and IR sensors for monitoring the train, once the train reached the station, gates will automatically open and let the people to get in the train. We have a train control unit that uses RFID technology to stop the train automatically. RFID tag will be placed on the track and the reader will be in train once the reader reads the tag the train will be stopped automatically.

Keywords:--

Safety, IR sensor, Microcontroller, RFID.

17th-18th May 2018

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ISBN: 978-81-937041-7-2

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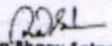
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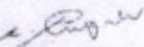
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

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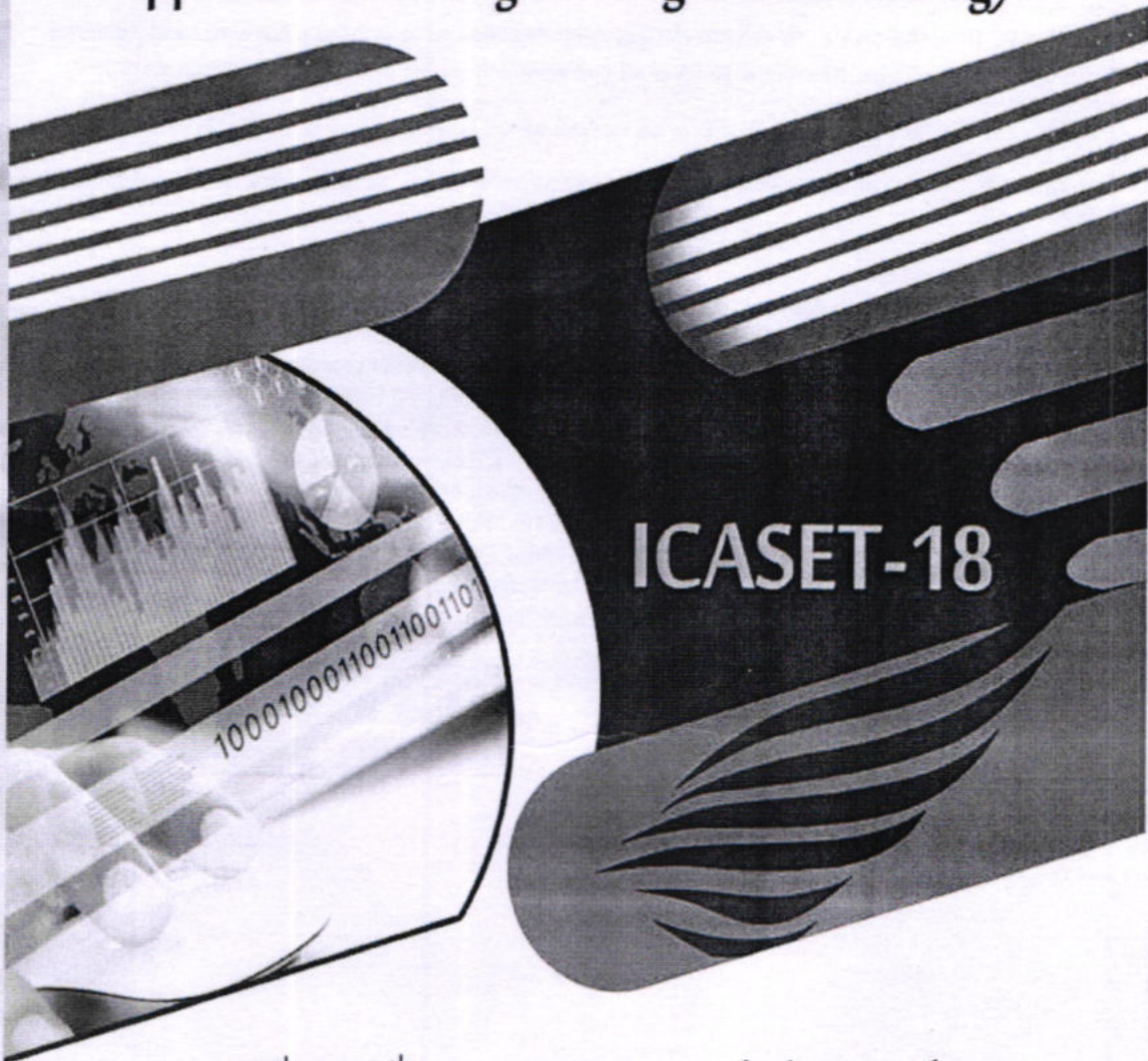
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ATM Security using Fingerprint Authentication and OTP

Aruna R., Assistant Professor, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal, Bangalore

Sudha V., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal, Bangalore

Shruthi G., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal, Bangalore

Usha rani R., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal, Bangalore

Sushma V., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal, Bangalore

Abstract:--

In this paper, we propose to add more security to the current ATM Systems. By using Biometric Authentication and GSM technology, we can overcome many of the flaws introduced by our current ATM system such as shoulder surfing, use of skimming device, etc. In our proposed system, Bankers will collect the customer's as well as respective nominee's fingerprint and mobile number at the time of opening the account. The primary step is to verify currently provided fingerprint with the fingerprint which is registered in the Bank's database at the time of account opening. If the two fingerprints get matched, then a message will be delivered immediately to the user's mobile number which is the random 10 digit pin number called as One Time Password (OTP). This OTP can be used only once, thus this avoids various problems associated with the present system. For every transaction, new OTP will be sent to account holder's mobile number, thus there will not be fixed PIN number for every transaction. Thus, PIN number will vary during each transaction assuring security.

Key words:--

ATM; PIN; Fingerprint; security; biometric.

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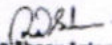


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Stabilization of Voltage by Using Buck Converters for Protection of Dc Microgrids

Suganya.J., Assistant Professor, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Nuthan S M., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Swarna Rekha A C., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Bhavyashree. H. N., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Abstract:--

This paper describes the use of a buck converter for controlling with variable input voltage. Some DC-DC converters for photovoltaic applications require that the input voltage be controlled while the output voltage is constant. This control is not so obvious and requires converter and regulator design. This paper presents a review of buck converters that are suitable for interfacing power sources to the dc distribution bus of a micro grid. Despite the high controllability of electronic power converters, not all converter topologies behave the same during a bus voltage condition. Some topologies are able to limit voltage, can participate in the protection scheme and can decrease the risk of catastrophic damage. Other topologies lose controllability in a situation of fault on the distribution bus and need to be protected against permanent damage by fastfuses, circuit breaker and voltage limiters. Power converters, such as back-to-back vs cs, buck-type isolated converters, full bridge mm cs and similar, can be controlled to limit the voltage, coordinated with protection devices, minimize the risk of catastrophic damage of the distribution system and increase the resilience and survivability of the microgrid.

Key words:--

DC microgrid, Voltage limitation, power converters, buck converters.

17th-18th May 2018

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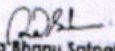


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Smart Auto Agricare

Santosh Kumar N., Assistant Professor, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore.

Chandrashekar., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Manoj H., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Ravi kiran C B., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Sharath kumar S., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore

Abstract:--

Identification of the plant diseases is the key to preventing the losses in the yield and quantity of the agricultural product. The studies of the plant diseases mean the studies of visually observable patterns seen on the plant. Health monitoring and disease detection on plant is very critical for sustainable agriculture. It is very difficult to monitor the plant diseases manually. It requires tremendous amount of work, expertise in the plant diseases, and also require the excessive processing time. Hence, image processing is used for the detection of plant diseases. Disease detection involves the steps like image acquisition, image pre-processing, image segmentation, feature extraction and classification. This paper discussed the methods used for the detection of plant diseases using their leaves images. This project also discussed some segmentation and feature extraction algorithm used in the plant disease detection.

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IOT based Fault Diagnostic Device for Photovoltaic Panels

Shantha Moorthy S., Assistant Professor, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal

Vanajakshi M., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal

Varsha R., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal

Spurthy., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal

Rahul Kolekar., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal

V.K. Tivari., Assistant Professor, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal

Abstract:--

A device for fault diagnostic of photovoltaic panels is presented. at the present condition there is only a static panel, but in this system maximum power tracking can be implemented using LDR. it will rotate according to the maximum sunlight. when we compare with existing system can't able to find out the fault in the appropriate panel or in a row of panels. by using the IoT the fault can be detected in which row the fault has been occurred . as the voltage decreases there is an indication of fault in the panel.

Key words:--

Photovoltaic systems, reliability, fault diagnosis, solar panels, IoT.

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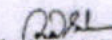
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Iot Based Water Care Centre for Lakes in Bengaluru

P. Gowri., Assistant Professor, Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore

Chaithra Ontakar., UG Scholars, Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore

Navyashree R., UG Scholars, Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore

Ranjitha R., UG Scholars, Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore

Rashmi V., UG Scholars, Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore

Abstract:--

Water pollution is one of the biggest fears for the green globalization. In order to ensure the safe supply of the drinking water-the quality needs to be monitor in real time. In this paper we present a design and development of a low cost system for real time monitoring of the water quality in IOT(internet of things).The system consist of several sensors is used to measuring physical and chemical parameters of the water. The parameters such as temperature, PH, turbidity, flow sensor of the water can be measured. The measured values from the sensors can be processed by the core controller. The Arduino model can be used as a core controller. Finally, the sensor data can be viewed on internet using WI-FI system.

Key words:--

pH sensor, Turbidity sensor, Temperature sensor, Flow sensor, Arduino model, WI-FI module

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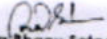
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Smart Rapid Controller

C. Sivaprakash., Assistant Professor, Department of Electronics and Communication Engineering, Sri Sairam College Of Engineering, Anekal Bengaluru.

Dhanya G S., Assistant Professor, Department of Electronics and Communication Engineering, Sri Sairam College Of Engineering, Anekal Bengaluru.

Roopa M., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College Of Engineering, Anekal Bengaluru.

Lakshmi G C., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College Of Engineering, Anekal Bengaluru.

Hemalatha D., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College Of Engineering, Anekal Bengaluru.

Ishwarya. B., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College Of Engineering, Anekal Bengaluru.

Abstract:--

This paper presents a effortless method to design the speed control system of motor drive for an electric bike. By properly selecting the current controller time delay and speed controller time delay, the 3-dB corner frequency of PI controller and the crossover frequency of current controller can be found respectively. The frequency of rotor is designed in the range between these two frequencies for proper operation. The simple method to determine the range of operating speed with appropriately tuning controller parameters, can not only speed up the design and implementation of speed controlled motor drive but also reduce the development time. An electric bike based on a brushless dc motor drive which has high efficiency, zero pollution, clean and convenient, is then designed and implemented in this paper. The hardware design based on a microcontroller is analysed and discussed. The software programming is developed in MPLAB integrated development environment. The experimental results show the feasibility and fidelity of the complete designed system.

Key words:--

Microcontroller, brushless DC motor, MOSFET, Hall sensors.

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
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

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Automatic Gas Cylinder Management

Dhanya G.S., Assistant Professor, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal

Mulum Tejas., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal,

Mujasim Pasha I., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal,

Raghavendra D., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal,

Veeresh K.R., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal.

Abstract:--

In the present scenario, we face a huge issue sometimes as we may require cooking during late night or any other work related to our LPG. However it would be too late to realize the value of that gas unless we realize it is over, by then it is too late as it takes 2-3 days to deliver a new cylinder. The aim of our project is to design and develop a device which is capable of detecting the depletion of gas and book cylinder automatically, to switch off the regulator when the gas is not used and to track the status of cylinder delivery. The cylinder management system would help improve productivity, as well as improve the quality, reliability and efficiency of the cylinder management process. We use WI-FI module in this project for checking the status of cylinder delivery. It is a non-renewable resource for the society to conserve the energy in the best possible way. Making the cylinder automatic relieves home-makers from the pain they take whenever there is emergency in the requirement for the cylinder and we do not know when the cylinder will go empty.

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

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Smart Garbage Detection System Using Iot Through Mobile App

A poonguzhali., Assistant Professor, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal

Soundarya R., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal

Priyanka N., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal

Tejaswini A., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal

Pavithra M., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering Anekal

Abstract:--

Nowadays certain actions are taken to improve the level of cleanliness in the country. People are getting more active in doing all the things possible to clean their surroundings. The absence of efficient waste management has caused serious environmental problems and cost issues. Various movements are also started by the government to increase cleanliness. We will try to build a system which will notify the corporations to empty the bin on time. This model consists of an atmega328 controller, a few garbage bins loaded with ultrasonic sensors and they are monitored continuously through a mobile app. When the garbage will reach the maximum level, a notification will be sent to the operators, and then the employees can take further actions to empty the bin. This system will help in cleaning the city in a better way. By using this system people do not have to check all the systems Manually but they will get a notification when the bin will get filled.

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

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Implementation of Rover for Mars Communication

C.Sivaprakash., Assistant Professor, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore.

Gulzar Begum. Z., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore.

Gracy Priyanka. D., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore.

Shubha. L.

Sangeetha.B.V., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore.

Vishal S Shabadi., UG Scholars, Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal, Bangalore.

Abstract:--

In the field of space exploration, rovers play a vital role. The main objective is to design a rover to explore the surface of mars and other distant planets. This paper describes how the mars rover communicates with the ground station. It includes a virtual Mars station and a virtual ground station. The Mars rover captures an image and sends it to the Mars station. Then the captured image is converted into a suitable signal so that it is transmitted to an orbiting satellite. This satellite sends the signal to the virtual ground station. It is converted to the original image on the virtual ground station. This signal is sent to another satellite if in case the communication with the first satellite fails. Rover is the most advanced machine with scientific instruments to exploit the presence of life on another planet. The rover body is called the electronics box. The rover body is strong outer layer that protects the rover's computer and electronics components and control the temperature. The communication between the station and rover will be wireless and the rover runs on wheels.

Keywords:--

Virtual Mars station, Virtual ground station, Rover, communication, soil survey, sensors.

17th-18th May 2018

ICASET - 18

ISBN: 978-81-937041-7-2

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

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Design and Implementation of Underwater Autonomous Vehicle (UAV- VARAUNA)

C. Sivaprakash., Assistant Professor, Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore.

Kusuma.P., Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore

Jeevan.N.R., Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore

Kishore Kumar.S., Department of ECE, Sri Sairam College of Engineering, Anekal, Bangalore

Dr. Pauline. A., Department of CSE, SEA College of Engineering, Bengaluru.

Abstract:--

VARUNA is the first autonomous underwater vehicle (AUV) design and build by our team. Complete the AUV in a six month design cycle, the vehicle is fully modelled using Solid works software and extensively we will simulate the structural and flow analysis with ANSYS, STARCCM+ software's and going to manufacture almost entirely in our campus. Grid Independent studies will be carried out for the structural and flow analysis. Various Turbulence models will be select based on the literature survey for the flow analysis. Based on the Grid independent studies simulation is carried out for various speeds for 0.1-0.5 m/sec then only we can neglect the lift forces based on the wet test. During generation of the meshes, attention will be given for refining the meshes near the AUV so that the boundary layer can be resolved properly. Varuna presents a cheaper, stronger, lighter in weight of 27 kg and compact size of 0.8m*0.6m*0.6mas length, width and height of the vehicle and capable of working under 25 m depth. New advancements include full vehicle control of six degrees of freedom, a dual-hull cantilevered electronics rack and hulls, overhauled wire routing for electrical systems, and significant software for mission reliability and robustness. Varuna sensor suite comprises of inertial measurement units (IMUs), two vision cameras, and humidity sensors, water sensors for kill switches, a depth sensor and an internal pressure sensor. Returning features include a vacuum-assisted sealing system; hot-swappable battery pods, unified serial communications, and flexible mission software architecture will be install.

Keywords:--

Raspberry Pi, Stainless steel frame, Acrylic hull, Sensors, Aurdino.

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Integration with Moisture Meter for Monitoring Stored Food Grains

C.Sivaprakash., Assistant professor, Department of Computer Science & Engineering, Sri Sairam College of Engineering, Bengaluru

Chaithra.S., UG Scholars, Department of Computer Science & Engineering, Sri Sairam College of Engineering, Bengaluru

Dilip Kumar., UG Scholars, Department of Computer Science & Engineering, Sri Sairam College of Engineering, Bengaluru

Shubham Trivedi., UG Scholars, Department of Computer Science & Engineering, Sri Sairam College of Engineering, Bengaluru

Vandana., UG Scholars, Department of Computer Science & Engineering, Sri Sairam College of Engineering, Bengaluru

Abstract:--

Moisture plays a very vital role in the daily operations of FCI (Food Corporation of India). With a change in moisture value, computation of storage loss/ gain in food grains gets affected. Hence capturing the moisture value is very essential. Food Corporation of India uses moisture meter (a hardware device) developed by different manufacturers. The readings of the moisture meter are noted manually and are fed into DOS (Depot Online System). Since there is a human intervention, there could be chances that the readings noted are erroneous. FCI is looking for a solution where the readings of the moisture meter are captured directly from the moisture meter into DOS or any other software application what FCI is using. This issue can be addressed by designing a hardware device which consists of a moisture meter and networking device. All of these devices work as a slave and they will send the moisture reading to the master device and this master device will store the captured data into the online system.

Keywords:-

Wi-Fi, Internet of things, Master, Slave, Depot Online System (DOS), Cloud storage.

17th-18th May 2018

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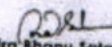
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
research paper titled **INTEGRATION WITH MOISTURE METER FOR MONITORING STORED FOOD GRAINS**


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

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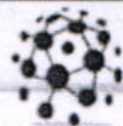



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Digital Signal Processing in Advanced Laboratory

Aruna.M.Neeli., UG student, ECE Dept, Sri Sairam College Of Engineering, Affiliated to VTU, Anekal, Bengaluru- 562 106

Sharada Hegade., UG student, ECE Dept, Sri Sairam College Of Engineering, Affiliated to VTU, Anekal, Bengaluru- 562 106

Varshini.C., UG student, ECE Dept, Sri Sairam College Of Engineering, Affiliated to VTU, Anekal, Bengaluru- 562 106

Uday kumar., UG student, ECE Dept, Sri Sairam College Of Engineering, Affiliated to VTU, Anekal, Bengaluru- 562 106

Geetha R., Asst professor, ECE Dept, Sri Sairam College Of Engineering, Affiliated to VTU, Anekal, Bengaluru- 562 106

Abstract:--

In this report we discuss a few issues that are important in a digital signal processor. These include issues like bus architectures that are most optimum for a DSP, parallelism and pipelining, fixed and floating point issues, etc. We then see the basic blocks required in any digital signal processor in section 3. The basic computational blocks include multipliers & accumulators (MACs), arithmetic & logic unit (ALUs) and shifters. Other blocks that are required for the proper control of these are program sequencers, data address generators, IO controllers and most important of all memory. In section 4 some issues related to power dissipation are included using an example of FIR filter realization.

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Dr. B. Shadaksharappa
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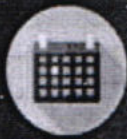


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Information Security

Dhanya G S., Electronics and Communication Engineering, Sri Sairam College Of Engineering Anekal, Bangalore

Hemsai L., Electronics and Communication Engineering, Sri Sairam College Of Engineering Anekal, Bangalore

Sachin Kumar., Electronics and Communication Engineering, Sri Sairam College Of Engineering Anekal, Bangalore

Imthiyaz Ali., Electronics and Communication Engineering, Sri Sairam College Of Engineering Anekal, Bangalore

Yuvaraj Patil., Electronics and Communication Engineering, Sri Sairam College Of Engineering Anekal, Bangalore

Abstract:--

This presentation mainly focuses on Information security. Information security deals with the privacy and security concerns of the data. Are all our data safe and secure with us? How can our data be secured from data phishing and hacking? How the data is misused? Every day at least 10 millions of the records are getting swiped. Here we see how to protect the data.

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An Innovative Method for Forest Fire Risk Zoning Map Using Fuzzy Inference System and GIS

A.Poonguzhali., Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal.

Sushmitha B.R., Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal.

Swati Nagaraj Mesta., Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal.

Soundarya R., Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal.

Vanajakshi M., Department of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal.

Abstract:--

Forest Fire causes considerable environmental damage and brings about a significant change in the ecosystem of the region. It is a humanistic and national duty to protect against fire the forests. Most of such forest fire incidents result from human nonchalance. Other causes such as thunderstorm, glass objects and etc. are also considered as triggers of such incidents, this paper mainly focuses upon the human factor. The considered parameters such as distance from the road, residential areas, river, slope, climate and type of vegetation, and GIS play a significant role in the analysis and determining the factors impacting fire incidents. GIS was used for the analysis and calculations required in regard with these parameters. Therefore the locations with fire risk are determined by a combination of experimental model, fuzzy inference system and GIS. The obtained results indicate high accuracy and good efficiency. Results discussed extensively in paper. To evaluate the proposed method, the obtained results were compared with fire incidents of past years. The comparison results indicate an improvement in predication by this method in comparison with other methods

Keywords:--

Forest Fire Risk Fire Risk Zoning Map, GIS, Fuzzy Inference System, Experimental Model.

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Intelligent Controller to Monitor and Control Physical Parameters in Greenhouse.

Prof.Santha Moorthy S., Sri sairam college of engineering, Bangalore ,Karnataka.

Punith Kumar N., Sri sairam college of engineering, Bangalore ,Karnataka.

Jayanth S., Sri sairam college of engineering, Bangalore ,Karnataka.

Vishal.S.Shabadi., Sri sairam college of engineering, Bangalore ,Karnataka.

Prajwal H M., Sri sairam college of engineering, Bangalore ,Karnataka.

Abstract:--

Green house needs the monitoring of the parameters like temperature, humidity and light. These parameters should be kept within the specified range. All these real time parameters are measured and sent to coordinator through zigbee. As an open and global standard for wireless sensor network zigbee protocol IEEE 802.15.4 shows advantages on low cost, low power consumption and low data rate. Zigbee's network layer supports three networking topologies star, mesh, and cluster tree. Star networks are common and provide for very long battery life operation. Zigbee based wireless monitoring and control system in greenhouse is composed of a coordinator and end devices including sensor nodes and electrical devices organized as a star network. By running software, the coordinator periodically receives the data from the wireless sensor nodes and displays them on its LCD. Meanwhile, it sends orders to electrical devices in the network to control them automatically.

Keywords:--

Greenhouse, Zigbee, WSN, FFD, RFD.

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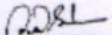
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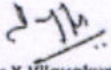

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Extraction of Exudates from Retinal Images Using Improved Fuzzy Clustering Method

Ramyasri R., Electronics and communication engineering, Sri SaiRam College of Engineering, ANEKAL, Bengaluru

Rashmi V., Electronics and communication engineering, Sri SaiRam College of Engineering, ANEKAL, Bengaluru

Ranjitha R., Electronics and communication engineering, Sri SaiRam College of Engineering, ANEKAL, Bengaluru

Gnanesh Kumar K., Electronics and communication engineering, Sri SaiRam College of Engineering, ANEKAL, Bengaluru

Prof. B Srilatha., Electronics and communication engineering, Sri SaiRam College of Engineering, ANEKAL, Bengaluru

Abstract:--

The diabetic retinopathy illness spreads polygenic disease on the membrane vessels therefore they lose blood provide that causes cavity in brief time, thus early detection of polygenic disease prevents visual defect in additional than five hundredth of cases. The retinal image identification is a very important methodology for diabetic retinopathy detection and analysis. During this paper the formula improved median filter is employed for pre-processing and additional feature extraction of exudates is completed by improved fuzzy bunch formula. The projected system consists of 4 stages. First is the gathering of real time retinal pictures from the hospitals. Second stage is pre-processing of retinal image exploitation improved median filtering. Third stage is feature extraction of Exudates and fourth is usually recommended for corresponding treatment for additional use. Simulation exploitation mat work were done employing a set of pictures and are established that the formula holds smart for all the photographs. exudates may be detected effectively.

Key words:--

Median filter, exudates, Structure pictures, improved fuzzy clustering, proper treatment.

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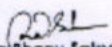
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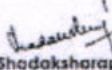
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Analysis of Microgrid

J.Suganya., Electronics and Communication Engineering Dept. Sairam College of Engineering, Bengaluru.

Navyashree.A.K., Electronics and Communication Engineering Dept. Bengaluru, Sairam college of Engineering.

Anusha.A , Electronics and Communication Engineering Dept. Bengaluru, Sairam college of Engineering.

Praveen.Y.S., Electronics and Communication Engineering Dept. Bengaluru, Sairam college of Engineering.

Manasa.S., Electronics and Communication Engineering Dept. Bengaluru, Sairam college of Engineering.

Abstract:--

Solar energy is a green energy and nearly no carbon traces are present. Hence, the growing demand and challenges to meet the electricity requirement even in remote places can be achieved with a solar microgrid. A microgrid when coordinately controlled, can be operated both in grid connected mode and intentional islanding condition. In this paper control scheme for intentional islanding of utility microgrid are analyzed. Also reviews on various strategies to develop HIL for fast and accurate islanding and coordination control are presented. To overcome generation and demand mismatch study of various centralized adaptive load shedding scheme is investigated.

Key words:--

Intentional islanding. Islanding Detection Method (IDM), centralized load shedding scheme. Synchro phasor technology, Distributed Energy Resources (DER), Supervisory-control and data-acquisition (SCADA) system, Wide Area Monitoring. Protection and Control (WAMPC) system.

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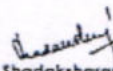
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Fatigue Monitoring of Aged People Using Eye Tracker

P Gowri., Dept of Electronics and Communication Engineering ,Sri Sairam College of Engineering, Anekal

Kiran D L., Dept of Electronics and Communication Engineering ,Sri Sairam College of Engineering, Anekal

Anita Chambanna Totad., Dept of Electronics and Communication Engineering ,Sri Sairam College of Engineering, Anekal

Dheeksha S., Dept of Electronics and Communication Engineering ,Sri Sairam College of Engineering, Anekal

Roshni Ramesan A., Dept of Electronics and Communication Engineering ,Sri Sairam College of Engineering, Anekal

Abstract:--

Monitoring mental fatigue has become important for improving cognitive performance and health outcomes especially for older adults. Previous models using eye-tracking data allow inference of fatigue during cognitive tasks, such as driving, but they require us to engage in specific cognitive tasks. A model capable of inferring fatigue in natural-viewing situations when individuals are not performing cognitive tasks would help monitor mental fatigue in everyday situations. Moreover, although eye-tracking measures exhibit age-related changes, previous models were mainly tested by user groups that did not include older adults. Here, we present a fatigue-detection model including (i) novel feature sets to better capture mental fatigue in natural-viewing situations and (ii) multiple fatigue-detection classifiers of each estimated age group to make it robust to the target's age. To test our model, we collected eye-tracking data from younger and older adults as they watched video clips before and after performing cognitive tasks. Our model improved accuracy by up to 22.3% compared with a model based on the previous studies, and it achieved 99.4% accuracy. Furthermore, after it was trained using the eye-tracking data before and after cognitive tasks, our model could detect increased mental fatigue of full-time workers after their work with 92.6% accuracy.

Keywords:--

mental fatigue, eye-tracking, features

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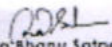
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Knowledge-Based Secure Dynamic Cache Update for Domain Name System

Sivaprakash C., Assistant Professor & Head, Dept. of ECE, Sri Sairam College of Engineering, Bengaluru.

Arvind Kumar C S., UG Student, Dept. of ECE, Sri Sairam College of Engineering, Bengaluru.

Prabha S., UG Student, Dept. of ECE, Sri Sairam College of Engineering.

Dr. Pauline. A., Professor & Head, Dept. of CSE, SEA College of Engineering, Bengaluru.

Abstract:--

The core of DNScupp (DNS cache update protocol) uses a dynamic lease technique to keep track of the local DNS name servers whose clients are tightly coupled with an Internet server. DN2IP mapping change of the corresponding Internet server, its authoritative DNS name server proactively notifies these local DNS name servers still holding valid leases. Although the notification messages are carried by the User Datagram Protocol (UDP), dynamic lease also minimizes storage overhead and communication overhead, making DNScupp a lightweight and scalable solution. Based on client query rates (or service importance to their clients), it is the local DNS name servers themselves that decide on whether or not to apply for leases (or renewal) for an Internet service. On the other side, the authoritative DNS name server grants and maintains the leases for the DNS resource records of the Internet service the major components of the DNScupp prototype include the detection module, the listening module, the notification module, and the lease-track file. DNScupp achieves the strong cache consistency in DNS and significantly improves its availability, performance, and scalability.

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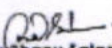
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Home Automation using IOT

N.Bhuvanewari., Dept of ECE, Sri Sairam college of engineering,Bangalore.

Navya.V., Dept of ECE, Sri Sairam college of engineering,Bangalore.

Shreya.K., Dept of ECE, Sri Sairam college of engineering,Bangalore.

Sandhya.P., Dept of ECE, Sri Sairam college of engineering,Bangalore.

Anushree N.R., Dept of ECE, Sri Sairam college of engineering,Bangalore.

Abstract:--

The "IOT based Interactive Controlling and Monitoring System for home automation" is a new technological advancement which can control and monitor devices not only for home automation but any real life appliances remotely. Any automation project using embedded system like PIC Microcontroller provides an intelligent , low cost, energy preserving system for homes ,schools ,hospitals .The main objective of this paper is to design and provide implementation details of IOT based ICMS for home as well as for any real life applications to automatically switch on/off lights, fans, gas, curtains ,gates using sensors, which is capable of controlling and automating most of the real life appliances through an easy manageable android based interface. The same project can be scaled up in distributed systems for any real life application.

Index Terms:--

IOT: - Internet Of Things. HACS: - Home Appliance Control System. ICMS- Interactive Controlling and Monitoring System. PIC:-Programmable Interface Controllers.

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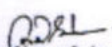
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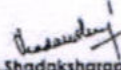
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Vision Based Rail Inspection Systems

N.Bhuvaneshwari, Dept of ECE, Sri Sairam college of engineering Bangalore.

Shrinivas B.P., Dept of ECE, Sri Sairam college of engineering Bangalore.

Rajesh Kumar Choudhary, Dept of ECE, Sri Sairam college of engineering Bangalore.

Soundharya.Bhimanpalli., Dept of ECE, Sri Sairam college of engineering Bangalore.

Ningappa., Dept of ECE, Sri Sairam college of engineering Bangalore.

Abstract:--

Computer vision-based condition monitoring methods, the methods are increasingly used on railway systems. Rail condition monitoring process can be performed using data obtained with the help of computers using these methods. In this study, a computer-based visual rail condition monitoring is proposed. By means of a camera placed on top of the train the rail that the train is on and the neighbor rail images are taken. On these images, the edge and feature extraction methods are applied to determine the rails. The resulting several faults between railways were studied to determine if there is a failure. The results obtained are given at the end of the study. Experimental results show that the proposed method is examined, it is observed that a healthy and effective results.

Index Terms:--

Condition monitoring, railway systems, image processing, fault diagnosis.

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Bengaluru - 562 106


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Head of the Department
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Sri Sairam College of Engineering
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New Technology under Real - Time Eye Tracking

R D Vidyarani ., Dept of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal

Chaitra D., Dept of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal

Nirmala M., Dept of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal

Ranjita K D., Dept of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal

Pooja Mattikatti ., Dept of Electronics and Communication Engineering, Sri Sairam College of Engineering, Anekal

Abstract:--

Eye tracking technology is an important technology in the field of artificial intelligence(AI). Spot Center Corneal Reflex (PCCR) is an eye tracking technique that relies on pupils and reflected light spots. Eye tracking technique used in the development of human-computer interaction(HCI). Therefore, it is significant to accurately locate the pupil position and reflected spot position. The traditional algorithm used the edge and the gray information of the image to extract the contours of the pupil and the spot, and then determine the location through the fitting. However, the collected images will be affected by many environmental factors, the boundary point and the fitting calculation will greatly affect the efficiency and stability of the algorithm. In this paper, a new method combining image gradient information with threshold segmentation is proposed. Gradient detection and threshold segmentation are carried out in the region of interest, and the pupil and reflection spot are extracted directly. So, this paper use the centroid method of calculation the center coordinates more accurately. The algorithm has a good robust performance to avoid noise and environmental effects. The algorithm used to develop human eye tracking system to achieve real-time eye tracking, while ensuring accuracy.

Keywords ::--

Eye tracking, pupil positioning, spot positioning, image gradient.

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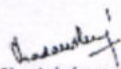
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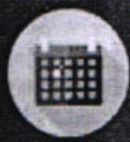


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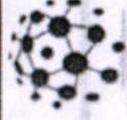
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Home Security through Digital Image Processing based on IoT

R.Deepa., Assistant Professor,ECE, Sri SaiRam college of Engineering, Anekal,Bangalore-562106

Pooja mattikatti., 3rd year ECE, Sri SaiRam college of Engineering, Anekal, Bangalore-562106

Sushmitha.S., 3rd year ECE, Sri SaiRam college of Engineering, Anekal, Bangalore-562106

Swathi,H.B., 3rd year ECE, Sri SaiRam college of Engineering, Anekal, Bangalore-562106

Triveni.V., 3rd year ECE, Sri SaiRam college of Engineering, Anekal, Bangalore-562106

Abstract:--

This paper gives an outline for automatic system to control and secure the home. based on digital image processing with the help of Internet of Things (IoT). The system consists of a sensor, digital camera, database in the fog and the mobile phone. Sensors are placed in the frame of the door which alerts camera. to capture an image who intends to enter the house, then sends the image to the database or dataset that is stored in the fog. Image analysis is performed to detect and recognize and match the image with the stored dataset of the authenticated people or pets. If the image captured does not match with the dataset then an alert message is send to the owner of the house. The image processing algorithms are considered for the processing spatial and time complexity of the image captured to cross check with the dataset stored in the fog.

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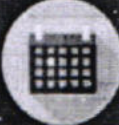


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Predictive Energy Efficient Technique for Objects Tracking Sensor Network

K.P. Linija Shylin., Assitant Professor, Department of ECE, Sri Sairam college of Engineering, Anekal, Bengaluru.

Sharath Kumar S., Student, Department of ECE, Sri Sairam college of Engineering, Anekal, Bengaluru.

Nuthan S.M., Student, Department of ECE, Sri Sairam college of Engineering, Anekal, Bengaluru.

Sudha V., Student, Department of ECE, Sri Sairam college of Engineering, Anekal, Bengaluru.

Abstract:--

In this paper, we devise and evaluate a fully decentralized, light-weight, dynamic clustering algorithm for target tracking. Instead of assuming the same role for all the sensors, we envision a hierarchical sensor network that is composed of a) a static backbone of sparsely placed high-capability sensors which will assume the role of a cluster head (CH) upon triggered by certain signal events and b) moderately to densely populated low-end sensors whose function is to provide sensor information to CHs upon request. A cluster is formed and a CH becomes active, when the acoustic signal strength detected by the CH exceeds a predetermined threshold. The active CH then broadcasts an information solicitation packet, asking sensors in its vicinity to join the cluster and provide their sensing information. To achieve significant reductions in the energy dissipated by the OTSNs while maintaining acceptable missing rate levels. PTSP is tested against basic tracking techniques to determine the appropriateness of PTSP under various circumstances. The PTSP outperforms all the other basic tracking techniques and exhibits significant amounts of savings in terms of the entire network's energy consumption total energy consumed.

Index Terms:--

Object Tracking Sensor network (OTSN), cluster head (CH).

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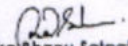
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Detection of Lung cancer using digital Image processing

P.Venugopal., Dept. Of E&C, Sri SaiRam College of Engineering, Anekal, Bangalore, Karnataka, India.

Chaithra S., Dept. Of E&C, Sri SaiRam College of Engineering, Anekal, Bangalore, Karnataka, India.

Ishwarya B., Dept. Of E&C, Sri SaiRam College of Engineering, Anekal, Bangalore, Karnataka, India.

Abarna R.J., Dept. Of E&C, Sri SaiRam College of Engineering, Anekal, Bangalore, Karnataka, India.

Chandrashekar S., Dept. Of E&C, Sri SaiRam College of Engineering, Anekal, Bangalore, Karnataka, India.

Prakruthi. p., Dept. Of E&C, Sri SaiRam College of Engineering, Anekal, Bangalore, Karnataka, India.

Abstract:--

Lung cancer main disease cause of death of among throughout the world. Lung cancer is causing very high mortality rate. There are various cancer tumours such as lung cancer, breast Cancer, etc. Early stage detection of lung cancer is important for successful treatment. Diagnosis is based on Computed Tomography (CT) images. In this Histogram Equalization used to pre-processing of the images and feature extraction process and classifier to check the condition of a patient in its early stage whether it is normal or abnormal.

Key words:--

Computed Tomography, cancer, Histogram Equalization, Watershed Segmentation

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Different ADC Architecture Suitable for Your Application

Santosh Kumar N., Assistant professor, Sri Sairam College of Engineering Anekal, Bengaluru

Praveen Kumar R., UG Students, Sri Sairam College of Engineering Anekal, Bengaluru

Siddesh.Y ., UG Students, Sri Sairam College of Engineering Anekal, Bengaluru

Sandeep Reddy., UG Students, Sri Sairam College of Engineering Anekal, Bengaluru

Vivek hegde., UG Students, Sri Sairam College of Engineering Anekal, Bengaluru

Abstract:--

Selecting the proper ADC for a particular application appears to be a formidable task. considering the thousands of converters currently on the market. A direct approach is to go right to the selection guides and parametric search engines, such as those available on the Analog Devices website. Enter the sampling rate, resolution, power supply voltage, and other important properties. But it's usually not enough. In this paper we will discuss various ADC suitable for various industrial application.

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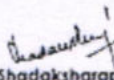
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An Efficient Automatic Method of Optic Disc Segmentation using Region Growing Technique in Retinal Images

Savitha H S., Assistant professor, Department of Electronics and Communication ,Sri Sairam College Of Engineering Anekal Bengaluru

Sowmya.S., UG Students, Department of Electronics and Communication ,Sri Sairam College Of Engineering Anekal Bengaluru

Sujatha B.T., UG Students, Department of Electronics and Communication ,Sri Sairam College Of Engineering Anekal Bengaluru

Nirmala.M., UG Students, Department of Electronics and Communication ,Sri Sairam College Of Engineering Anekal Bengaluru

Abstract:--

Segmentation of Optic disc (OD) from a retinal image is a essential step while developing automated screening systems for eye disease like diabetic retinopathy, Glaucoma etc. This paper proposes a method of automatic optic disk segmentation based on region growing technique with automatic seed selection. In this method centre of optic disk iss considered as a seed to apply region growing technique to segment the optic disk from the preprocessed retinal image. Automatic detection of centre of optic disk is done by double windowing method. The algorithm uses image processing techniques like contrast adjustment, morphological operations & filtering to process the retinal image and to remove the blood vessels from the retinal image. The performance of optic disk segmentation by proposed method compared with Optic disk segmentation ophthalmologists and results are found convincing and efficient. The experimental results indicate this method of segmentation of the OD has good accuracy and also is computationally cheap.

Keywords:--

Medical Imaging, Retinal Image Processing, Optic Disc, Image Segmentaton.

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ISBN: 978-81-932966-3-9

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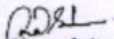
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Fire Fighting Robotic Vehicle

Suhas Kumar M. S, Department of ECE, Sri SaiRam College Of Engineering, Karnataka.

Vinayak K Nase, Department of ECE, Sri SaiRam College Of Engineering, Karnataka.

Praveen Kumar. R, Department of ECE, Sri SaiRam College Of Engineering, Karnataka.

Vidya Pragnya. K, Department of ECE, Sri SaiRam College Of Engineering, Karnataka.

Geetha. R, Department of ECE, Sri SaiRam College Of Engineering, Karnataka.

Abstract:—

The project is designed to develop a fire fighting robot using RF technology for remote operation. The robotic vehicle is loaded with water tanker and a pump which is controlled over wireless communication to throw water. An 8051 series of microcontroller is used for the desired operation. At the transmitting end using push buttons, commands are sent to the receiver to control the movement of the robot either to move forward, backward and left or right etc. At the receiving end three motors are interfaced to the microcontroller where two of them are used for the movement of the vehicle and the remaining one to position the arm of the robot. The RF transmitter acts as a RF remote control that has the advantage of adequate range (up to 200 meters) with proper antenna, while the receiver decodes before feeding it to another microcontroller to drive DC motors via motor driver IC for necessary work. A water tank along with water pump is mounted on the robot body and its operation is carried out from the microcontroller output through appropriate signal from the transmitting end. The whole operation is controlled by an 8051 series microcontroller. A motor driver IC is interfaced to the microcontroller through which the controller drives the motors. Further the project can be enhanced by interfacing it with a wireless camera so that the person controlling it can view operation of the robot remotely on a screen.

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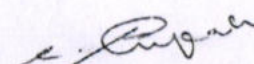
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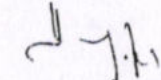

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ISSN - 978-61-937041-7-2

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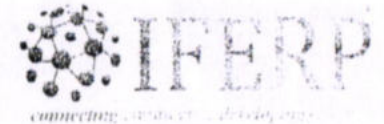
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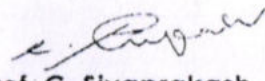
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..... during the "5th International Conference on Applied Science,
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Anekal, Bengaluru, Karnataka, 17th - 18th May 2018

Global Bus Monitoring and Alert System

Raghavendra Rao B., Assistant Professor, CSE, Sri Sairam College of Engineering

Ganapriya R., UG Scholars, CSE, Sri Sairam College of Engineering

Monika S., UG Scholars, CSE, Sri Sairam College of Engineering

Jyothi Tiwari P., UG Scholars, CSE, Sri Sairam College of Engineering

Kavitha Lakshmi B., UG Scholars, CSE, Sri Sairam College of Engineering

Abstract:--

RFID is a technology similar to that of bar code scanning. An RFID system consists of tags which use radio frequency signals to transmit its location information to a RFID reader. This project presents by placing RFID reader in the buses and the RFID tags in every alternative bus stop which are then displayed at the mobile. This system thus describes is a cost effective and easy to implement scheme for tracking buses in real time.

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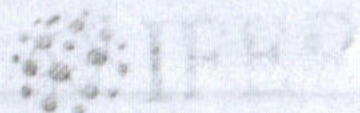
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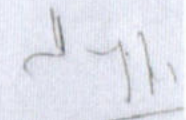

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Intelligent Sign Language Recognition for Deaf and Dumb

^[1] Mr. B. Raghavendra Rao ^[2] B Ruban Chakravarthi ^[3] B Keerthana ^[4] U Dhivya Rakshana
^[5] K Kanaka
^[1] Assistant professor ^[2] ^[3] ^[4] ^[5] Student
^[1] ^[2] ^[3] ^[4] ^[5] Department of Computer Science and Engineering
Sri Sairam College of Engineering, Bengaluru, Karnataka, India

How would pink color look like? It would look like how we hear Ilayaraja's music. The word differently abled in the title is to respect the ability of the blind who could imagine that color could be felt from the music. This project is an attempt to a sensor less virtual talking machine for Deaf and Mute people. The image processing technique called skeletonising is using for converting the sign language in to voice output. This project use camera with the PC with Mat lab installed in it. Will these people take this everywhere? No, but they could surely take smart phones. This is a prototype to develop the concept of converting the sign language to speech. The Mat lab program which would get the sign's shown by bare hands from the camera and process to understand the sign with the help of the database that would be collected. The Mat lab program after guessing the sign would send the wireless data transfer through the Zigbee transceiver. The Zigbee transceiver in the receiving end would get instruction as what the Mat lab program had understood. The received byte would be serially communicated to the microcontroller and the microcontroller would trigger a particular voice from the pre-recorded database on the voice replaying board.

Note

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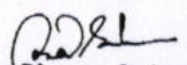
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


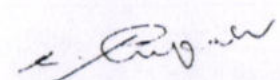
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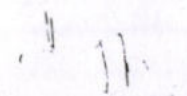

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Automatic Pill Dispenser

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Ms. Udaysree P., UG Scholars, Department of Computer Science and Engineering, Sri SaiRam College of Engineering, Bangalore, VTU Belgaum, Karnataka, India

Ms. Ranjitha S., UG Scholars, Department of Computer Science and Engineering, Sri SaiRam College of Engineering, Bangalore, VTU Belgaum, Karnataka, India

Ms. Sangeetha L., UG Scholars, Department of Computer Science and Engineering, Sri SaiRam College of Engineering, Bangalore, VTU Belgaum, Karnataka, India

Ms. Priyanka., UG Scholars, Department of Computer Science and Engineering, Sri SaiRam College of Engineering, Bangalore, VTU Belgaum, Karnataka, India

Abstract:--

Earlier, people would live in joint families where atleast one person used to be there at home to take care of aged people. In modern days, people prefer nuclear families where there are no one present to take care of aged people and patients due to their busy working schedule. To overcome this, they need to appoint a caregiver to take care of the patients for their diet, hygiene, medication etc. Payments given to the caregivers will affect their savings. To overcome such problems a model is needed. This model medicates the patients and aged people automatically to inform them regarding medication in time as prescribed by the Doctor. This is done by presetting the prescribed time and comparing it with RTC time. When they are equal, tablets are dispensed. The patient is given sufficient time to take the tablets. If the patient fails, a message is sent to the caregiver informing about the failure. Thus the proposed model is implemented for aged people, patients, bed-ridden and the illiterates to ensure medication at right time and simultaneously notify the caregiver if patient fails to take medications.

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



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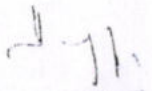

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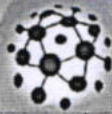



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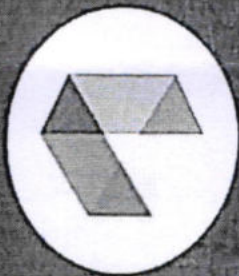
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Dustless Environment by Transportation Means

Gagana G E, UG scholars, Department of Computer Science and Engineering, Sri Sairam College of Engineering, Bengaluru
Madhushree P, UG scholars, Department of Computer Science and Engineering, Sri Sairam College of Engineering, Bengaluru
M Vanishree, UG scholars, Department of Computer Science and Engineering, Sri Sairam College of Engineering, Bengaluru
Veena R, UG scholars, Department of Computer Science and Engineering, Sri Sairam College of Engineering, Bengaluru
Mr. T K Pradeep Kumar, Assistant Professor, Department of Computer Science and Engineering, Sri Sairam College of Engineering, Bengaluru.

Abstract:—

This is an automated system which will be fitted in the Bus for cleaning the dust particle from environment. The proposed technique is intended to facilitate the user to clean the dust particle through vacuum cleaner. In this system Microcontroller is the main unit, which controls the whole process. We are going to use AVR family microcontroller (ATMEGA 8/ ATMEGA 16). Vacuum Cleaner is used for cleaning the dust particle from road, which is connected with microcontroller. There is a container for containing the dust particle. We are going to use IR sensor for detecting the quantity of dust particle in container. IR sensor will be fitted on the top of container. When the container will be filled with dust container, then the sensor will detect it and send information to microcontroller. The sensor will be connected with Microcontroller. There will be one alert system for giving alert when the sensor will detect the quantity of dust. There will be one manual switch, which will be used for opening and closing of the container. Motors will be fitted on the top of container for opening and closing container. solar panels are placed on roof of the bus for power supply

Keywords:- Manual Switch. Microcontroller. Container.

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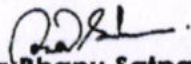
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


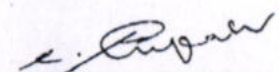
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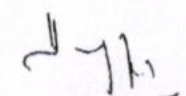

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“HEAD MOVEMENT” Controlled System to Assist the Physically Challenged Using IoT

Reji Thomas., Assistant Professor, Department of Computer Science & Engineering, Sri Sairam College of Engineering, Bengaluru
Anoop Daewoo M., UG Scholars, Department of Computer Science & Engineering, Sri Sairam College of Engineering, Bengaluru
VK Manasa., UG Scholars, Department of Computer Science & Engineering, Sri Sairam College of Engineering, Bengaluru
Aishwarya M., UG Scholars, Department of Computer Science & Engineering, Sri Sairam College of Engineering, Bengaluru
Rakesh Kumar Yadav G., UG Scholars, Department of Computer Science & Engineering, Sri Sairam College of Engineering, Bengaluru.

Abstract:--

“Silla de-ruedas” This project describes the design of a simple, wheel chair using head movement system. Heart rate of the subject is measured from the thumb finger using IRD (Infra Red Device sensors). This instrument employs a simple Opto electronic sensor, conveniently strapped on the finger, to give continuous indication of the pulse digits. The Pulse monitor works both on battery or mains supply. It is ideal for continuous monitoring in operation theatres, I.C. units, biomedical/human engineering studies and sports medicine. This project uses AT89S52 MCU as its controller. By reading all the values of temperature and heart rate will be displayed on LCD. Temperature and heart beat values will be taken and updated in the web server using IoT module interfaced to the controller. This project uses regulated 5V, 500mA power supply. 7805 three terminal voltage regulator is used for voltage regulation. Bridge type full wave rectifier is used to rectify the ac out put of secondary of 230/12V step down transformer.

Keywords:--

Microcontroller, H-Bridge, IoT, Android Application.

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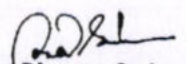
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


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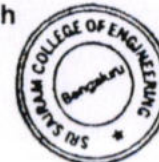
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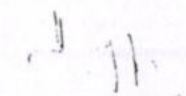

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Vehicle Accident Detection Using Black box
System

C Sharon KoppPraya., Assistant Professor, Department of Computer Science & Engineering, Sri Sairam College of Engineering,
Bengaluru.

Chaitra A., 103 Students, Department of Computer Science & Engineering, Sri Sairam College of Engineering, Bengaluru.

Anitha A., 103 Students, Department of Computer Science & Engineering, Sri Sairam College of Engineering, Bengaluru.

Sri Harsha B S., 103 Students, Department of Computer Science & Engineering, Sri Sairam College of Engineering, Bengaluru.

Shahid Mohammed Ahmed Raza., 103 Students, Department of Computer Science & Engineering, Sri Sairam College of
Engineering, Bengaluru.

Abstract:--

As per the World Health Organization (WHO), more than a million individuals on the planet pass on every year on account of vehicle mishaps. Regardless of its multifaceted cause, this issue is as yet adequate rest, riding with no cap insurance, and so forth. This paper presents automatic vehicle accident detection and reporting system using black box. The proposed system use ARM controller, black box, LCD, GPS module and GSM modem. This framework is placed in moving vehicle to detect accident and report to In Case of Emergency (ICE). In case of accident, ARM controller communicate with GPS module in prefixed terms and sends the vehicle location information such as Latitude and Longitude to the responder over GSM. The proposed system gather position information to manage focus using GPS by Google Earth. MEMS sensor detect the surplus vibration case of accident and activate the above frame number of circuits. The VBBS can contribute to constructing safer vehicles, improving the treatment of crash victims, helping insurance companies with their vehicle crash investigations and enhancing road status in order to decrease the death rate.

Keywords:--

Black Box, ARM, GSM technology, Microcontroller.

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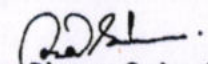
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


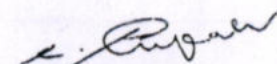
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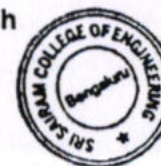
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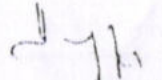

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"Samarthyam" - Advance Footstep Power Generation

Hindu Madavi
 Sandya A.S.
 Sathya J.S.
 Poorna B.Narayanan
 Prava J.

Abstract-

Samarthyam - This project for power. Man has needed and used energy of its surrounding for his sustenance and survival over since he came on the earth. A few million years ago, from the discovery of fire, energy resources have been exhausted and wasted. Proposal for the utilization of waste energy of our India and China, through the touch, rubbing, various, shoe, tanks, temples, etc. All these conditions are millions of people are around the globe. The project advanced footstep power generation system to generate power from human footsteps. The system allows for a platform for practical footstep. It uses Pzto sensors to generate the power. The Footstep Power Generation System is self-powered, it reduces waste of energy. It is of less maintenance cost. It is of suitable noise and vibration level and high power range. This project is used for street lighting, mobile charging. It can be used to power traffic lights. The application area of this project involve public areas, like temples, schools, markets, railway stations. The entire system will be integrated with software for displaying the amount of power generation with the help of IoT technology.

Keywords -

Power, Innovation, Piezoelectric, spring, module

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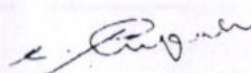
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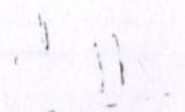

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A Smart Initiative for Automobiles and Road Safety

Mr. Nisha MS, Assistant Professor, Department of Chemical & Polymer Engineering, Sri Sathram College of Engineering, Bengaluru
Nanda Kumar V., V. J. Somaiya, Department of Computer Science & Engineering, Sri Sathram College of Engineering, Bengaluru
Karthika K., V. J. Somaiya, Department of Computer Science & Engineering, Sri Sathram College of Engineering, Bengaluru
Latha S., V. J. Somaiya, Department of Computer Science & Engineering, Sri Sathram College of Engineering, Bengaluru
Geethika K., V. J. Somaiya, Department of Computer Science & Engineering, Sri Sathram College of Engineering, Bengaluru

Abstract:-

The project is to engender a progressive city by utilizing today's available premium technological resources by constructing our planet to be a better and safe place to live based on the idea of smart cities. In this proposed project, the Automobiles are equipped with RFID tags, audio instructor and road side unit with RFID detector. When the vehicle enters those restricted zones, automatically speed will be controlled using 89S52 microcontroller as well as an audio is heard in the vehicle. Whenever a red signal lamp has been found by using sensors on the road side automatically penalty amount from the prepaid smart card inside the vehicle will be deducted and credited to RTO account.

Keywords:-

RF module (RFID tags, RFID readers), Smart card (RFID card), IR sensors, Audio instructor, Microcontroller 89S52.

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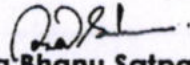
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


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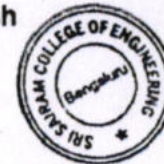
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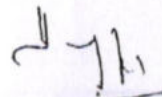

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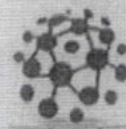



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Krushi Roboter-“Future Farmer’s Friend

Ms.Sowmya A M., Department of Computer Science and Engineering, Sri Sai ram College Of Engineering, Anekal,Bangalore-562106

Ramya M., Department of Computer Science and Engineering, Sri Sai ram College Of Engineering, Anekal,Bangalore-562106

Ranjith C., Department of Computer Science and Engineering, Sri Sai ram College Of Engineering, Anekal,Bangalore-562106

Madhusudhan R., Department of Computer Science and Engineering, Sri Sai ram College Of Engineering, Anekal,Bangalore-562106

Ranjitha V., Department of Computer Science and Engineering, Sri Sai ram College Of Engineering, Anekal,Bangalore-562106

Abstract:--

This robotic vehicle is an agricultural machine of a considerable power and great soil clearing capacity. This multipurpose system gives an advance method to sow, plough, and water and cut the crop with minimum man power and labor making it an efficient vehicle. As jobs in agriculture require intelligence and quick, where robots could be substituted. The mode of operation of the proposed machine is simple even to the lay man. Model is controlled using Android Application through BLUETOOTH. The application is specifically designed for moving the robot in variable directions such as, forward, backward, left and right. Developed agriculture needs to find new ways to improve efficiency. The project gives an integrated application in the field of agriculture, which plays a vital role in the development of nation. The machine will cultivate the farm by considering particular rows and specific column at fixed distance depending on crop. Moreover the vehicle can be controlled through Bluetooth medium using an Android smart phone. The whole process calculation, processing, monitoring are designed with motors & sensor interfaced with microcontroller.

Keywords:--

Bluetooth, microcontroller, motor driver circuit, transmitter and receiver.

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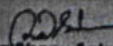
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
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


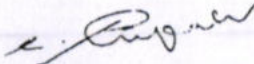
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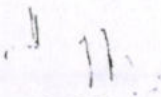

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Nivartaka -an eco-Friendly Multipurpose Vehicle

Divya srubha, Assistant Professor, Department of Aeronautical Engineering, Anna University, Bengaluru
Niharika S., 1st Assistant Professor, Department of Aeronautical Engineering, Anna University, Bengaluru
S Hemalatha, Assistant Professor, Department of Aeronautical Engineering, Anna University, Bengaluru
Suresha B., 1st Assistant Professor, Department of Aeronautical Engineering, Anna University, Bengaluru
Princess R., 1st Assistant Professor, Department of Aeronautical Engineering, Anna University, Bengaluru

Abstract:-

Nivartaka is a multipurpose Unmanned Aerial Vehicle (UAV) is an important technology. The quadcopter is built using bamboo sticks which is light and strong serves as a multipurpose vehicle. Application which is developed in this research has a purpose to simulate conditions in various zones for spraying the pesticides. Various missions can be done using UAV such as surveillance, surveillance, survey, survey, construction, and spraying enemy territory. It is used in medical field for transporting medicines and drugs. Platform used in our experiment is a simple quad copter mounted with a 250mm camera board. A GPS module and the wifi telemetry unit is incorporated in this UAV, which would enable live video broadcasting system. The robotic vehicle will search and recognize our coordinates in the field ground and locate their location. It would also help in the investigation and supply food, medicines and other necessary amenities in the disaster areas where emergency occurs.

Keywords:-

APM2, 5.GPS, Telemetry, Android application.

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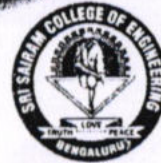
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


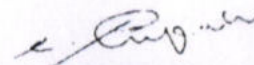
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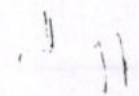

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Hand Gesture Based Survivellence Robot

Mrs. Shalini K V., Department of computer science and engineering, sri sairam college of engineering, Anekal Bangalore-562106

Sharath sagar reddy P., Department of computer science and engineering, sri sairam college of engineering, Anekal Bangalore-562106

Manasa S., Department of computer science and engineering, sri sairam college of engineering, Anekal Bangalore-562106

Jhansi Rani M., Department of computer science and engineering, sri sairam college of engineering, Anekal Bangalore-562106

Arun S., Department of computer science and engineering, sri sairam college of engineering, Anekal Bangalore-562106

Abstract:--

In the past decade, robotic systems have been used with increased popularity for explosive ordnance (EOD) missions. Advances in robotic technology have made it possible for robots to perform functions, previously only possible by human workers wearing a blast suit. The primary advantage to using robotic systems for explosive ordnance disposal is the reduced risk to humans. Currently, EOD robots are able to traverse a variety of terrain, collect and destroy certain explosives and provide improved reconnaissance capabilities to law enforcement and military agencies. Although far from perfected, these robots are saving lives by finding and disposing of explosives without the need for direct human contact reliable robotic platform. The key features of the robot include an hand gesture interface which provides additional sensor feedback and enhanced visual awareness compared to existing systems, an on board three degree of freedom manipulator arm providing an enlarged workspace, and a dexterous gripper allowing for the removal of detonators. The flexible and modular robot design utilizes commercial off the shelf components for ease of maintenance and repairs. The robot provides a safe distance threat assessment and increased capacity for explosive ordnance disposal, improving the effectiveness of bomb disposal teams. The robots low-cost, hand gesture operation and ease-of-maintenance promote its widespread appeal, thereby saving the lives of both law enforcement personnel and civilians. Robot will detect the position of the bomb by using GPS module. The user just needs to wear a gesture device which includes a sensor. The sensor will record the movement of hand in a specific direction.

Key words:--

GPS, sensor, wireless communication, GSM, EOD Robots.

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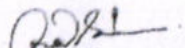


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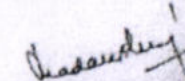
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IFERP




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Head of the Department
Electronic & Instrumentation Engineering
Sri Sai Ram College of Engineering
Anekal, Bengaluru - 562 106


Dr. B. Shadaksharappa
Program Chair
Head of the Department
Dept. of Computer Science & Engineering
Sri Sai Ram College of Engineering
Anekal, Bengaluru - 562 106




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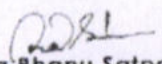
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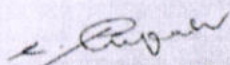


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Automatic Leg UP Landingsystem

R Vijai., Asst. Professor, Department of Mechanical Engineering, Sri Sairam College of Engineering, Anekal, Bengaluru- 562106

Chethan.B.R., Mechanical Engineering Department, USN:1SB14ME028, Sri Sairam College of Engineering, Anekal, Bengaluru- 562106

Arun kumar.S., Mechanical Engineering Department, USN:1SB14ME018, Sri Sairam College of Engineering, Anekal, Bengaluru- 562106

Dileep.B., Mechanical Engineering Department, USN:1SB14ME031, Sri Sairam College of Engineering, Anekal, Bengaluru- 562106

Vinay.H.P., Mechanical Engineering Department, USN:1SB13ME124, Sri Sairam College of Engineering, Anekal, Bengaluru- 562106

Abstract:--

In this project, we are redesigning 'AUTOMATIC LEG UP LANDING SYSTEM' for bikes. We are attaching a PNEUMATIC ACTUATOR in pillion footrest in bikes. The circuit and sensor will be installed. The materials which are used in this project are easily available in the market. The part can be easily fixed to bikes and replacement of the parts are easy. "This system can be adopted in bikes to give extra support for the riders when the bike is in low speed". This system is a combination of electrical and mechanical parts. This system can be adopted only for the bikes.

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1000, Anekal

[Signature]
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An Energy Saving Algorithm Using Heterogeneity Aware Protocol in Wireless Sensor Networks to sustain lifetime of nodes

N.Rakesh, Mohammed Shakir, P.Kalamani, B.Uma Maheswari

Department of Computer Science and Engineering
Amrita School of Engineering, Bengaluru
Amrita Vishwa Vidyapeetham
Amrita University, India
n_rakesh@blr.amrita.edu

Abstract—With the advancement in sensing technology, applications are moving from wired to wireless region. The main challenge is the energy consumption of individual sensing nodes. When first node dies system becomes unstable and we cannot make use of the untapped node's energy. There comes the relevance of TSEP like protocols in such heterogeneous network. Heterogeneous in the sense with respect to node energy the system becomes unstable. This work analyzes the advantages of TSEP like protocols. When we are manufacturing application for predicting the environmental pollution, natural and ecological disasters, all need to be communicated at present. So energy of sensing node places a crucial factor. The primary source of a sensor node is usually a battery and is usually neglected once it is deployed, which creates routing decision problem and scalability issues. In this work, the data acquisition happens by using a temperature sensor application, the proposed work captures data and it is analyzed using stable election protocol by observing the output performance with respect to lifetime of sensing nodes.

Keywords—TSEP, Cluster head, Transmission delay, Network lifetime

I. INTRODUCTION

In past decade remarkable research happened about the proficiency of sensing nodes communication and routing protocols. In WSN the main concern is to conserve energy and improve the lifetime of the nodes. While battery life aspect is crucial in sensor node, so the network routing protocols not only faces the challenges of quality of service but also the scalability and energy consumption. The sensor node networks the main energy devastation happening for sensing and communication between nodes [2]. Therefore

efficient energy management helps to improve the network lifetime [14].

In homogeneous network, the probability to become cluster head is the same. However, it will not provide efficiency to nodes with respect to lifespan [8]. The network becomes unstable when first node dies. SEP, ESEP, TSEP all protocols are considered as heterogeneity aware protocols [1]. At the initial stage all nodes are considered to be homogeneous, when it starts communicating, during which the energy dissipation happens. Consequently different nodes having different energy becomes heterogeneous with respect to energy [10].

Further paper is organized as follows, Section I- Introduction, Section II - Review of related work, Section III - Proposed system architecture and Section IV- Describes the methodology, Section V- Experimental Setup, Section VI - Conclusion of the proposed work.

II. REVIEW OF RELATED WORK

Wireless Sensor Network is widely used for monitoring purpose. The duty of a sensor node is that source node collects data and transfers to sink. Clustering techniques are widely used for conserving energy of sensor nodes. Many researches have taken place for improving the efficiency of wireless sensor network communication [13].

LEACH protocol is considered as most popular hierarchical routing algorithm for wireless sensor nodes. Cluster head position moves among the network

of nodes [12]. The main advantage is that in each beginning phase we can avoid the setup overhead. Main drawback is it is not applicable to large area [4][5].

In Threshold sensitive Energy Efficient Sensor Network Protocol cluster heads dissipate two threshold values. First value is the hard threshold. Hard threshold is the minimum value required to activate a sensor node [7][8]. TEEN [6] has better performance than LEACH protocol. The main drawback is the complexity in forming cluster heads among network.

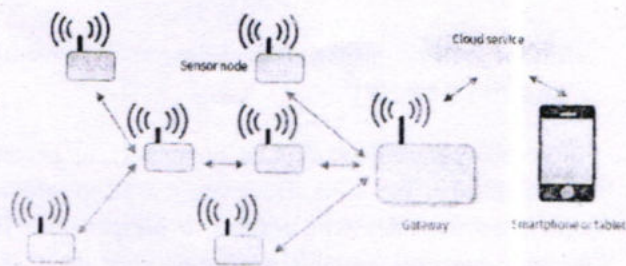


Fig 1.1 Sensor communications to cloud system

From the above Figure 1.1 communication we could identify that from source nodes towards sink and from sink to gateway and through gateway to cloud external. Sensor nodes are basic components of the system. Any delay in communication lack of node energy, the impact was huge. Especially when it comes to natural disaster monitoring systems etc.

III. PROPOSED SYSTEM ARCHITECTURE

The overall architecture of the process is

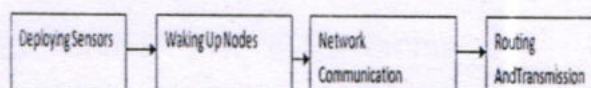


Fig 1.2 Communication system architecture

Deploying the sensors around 100x100m. After deploying the sensors based on the threshold value, sensors will be invoked. After invocation communication part will come. Then will do the routing and transmission.

In this work it mainly assumes the sensors with different energy and different processing power. Some nodes with high energy will be deployed to network for experimental purpose. From the collection of nodes a subset will be calculated based on energy. That subset will act as cluster head for that transmission. It works in an iterative way. When the node energy goes below a threshold value or zero this process repeats.

IV. METHODOLOGY

The algorithm consists of mainly two phases.

1. Selecting the cluster head

Cluster head selection is mainly carried out by energy level of nodes. When node energy is different it becomes heterogeneous. Depending on the node energy, nodes are classified in to three categories.

- a) Normal node
- b) Intermediate and
- c) Advance node

The node with superlative energy is the advance node. Intermediate nodes have medium energy, rest of the nodes are normal nodes.

$$P_{nrm} = \frac{P_{apt}}{1+m.a+c\mu} \dots\dots\dots 1$$

$$P_{nrm} = \frac{P_{opt}(1+\mu)}{1+m.a+c\mu} \dots\dots\dots 2$$

$$P_{nrm} = \frac{P_{opt}(1+\alpha)}{1+m.a+c\mu} \dots\dots\dots 3$$

When we consider SEP protocol if energy of one node is E_0 then the energy of advance node will be increased by some fraction.

$$\text{Energy of advanced node} = E_0(1+\beta).$$

Now to ensure cluster head selection we have to establish threshold level also. Each node iteratively generates some random values. All sensor nodes sensing will happen only when it reaches a hard threshold value.

Once the node meets the threshold value and sense the environmental value it stores. It is called stored value. When the next iteration comes if the sensed value is greater than stored value only then next level transmission is possible.

2. Communication between nodes

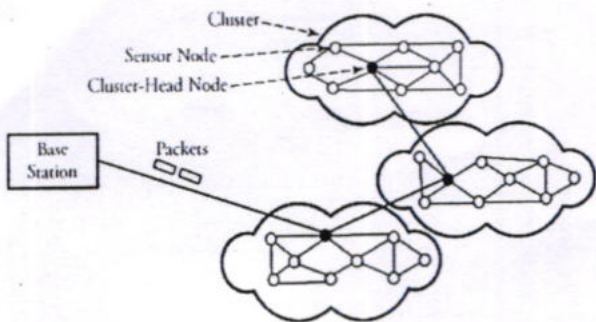


Fig 1.3 Packets send to base station

According to above Fig 1.3 cluster group will be formed based on energy. The CH selection happens. Then transmission process starts to base station [3]. The throughput of the concerned protocol is measured by the amount of data it sends from cluster heads to base station.

V. SIMULATION RESULTS AND ANALYSIS

For performance evaluation and analysis MATLAB is used as simulating environment. Here we compared the performance with TSEP, SEP, ESEP and LEACH protocols on the basis of energy dissipation and longevity of network. Performance metrics used in the simulations are:

- a) Node stability Period.
- b) Node instability period.
- c) Number of nodes survived after each round.
- d) Number of dead nodes per round.

After the initial analysis we can conclude the following assumptions:

- a. The critical data from node.
- b. Even though sensing is continuous, but transmission is not done frequently. Hence energy consumption is much more less than that of proactive networks.

Table 1. Parameter setting for simulation

From the above Table 1, the network parameter settings considered for simulations like Energy level, Packet size and No of nodes. Here comparative study of LEACH, SEP, TSEP and ESEP are carried out.

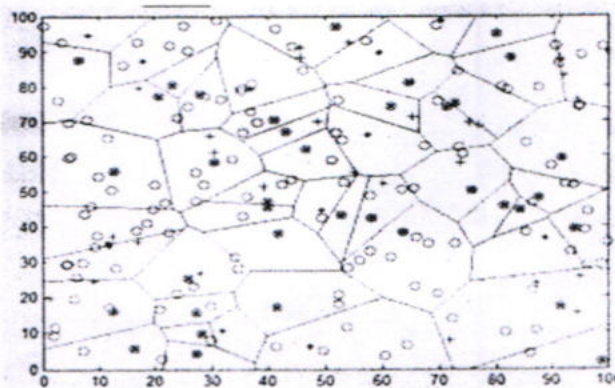


Fig 1.4 Snapshot of nodes when all nodes alive

From the above Figure 1.4, we could identify the nodes dispersed over a region 100*100m, TSEP simulation and cluster formation.

A. LEACH PROTOCOL

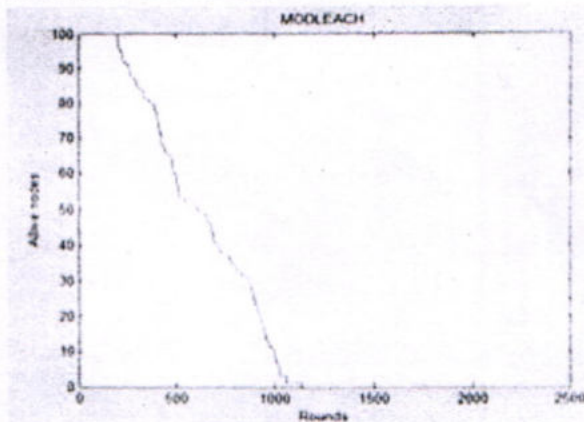


Fig 1.5 No of alive nodes for Leach protocol

From the above Figure 1.5 we could identify the leach protocol behavior in a heterogeneous network. X - axis consis

Parameter	Value
D_{DA}	5nJ/bit/message
Q_{fs}	10pJ/bit/m2
Q_m	0.0013pJ/bit/m4
E_e	0.5J
K	4000
P_{op}	0.1
n	100
α	1
M	0.1

nodes in each round. At the initial stage average energy of each node will be calculated for cluster head selection.

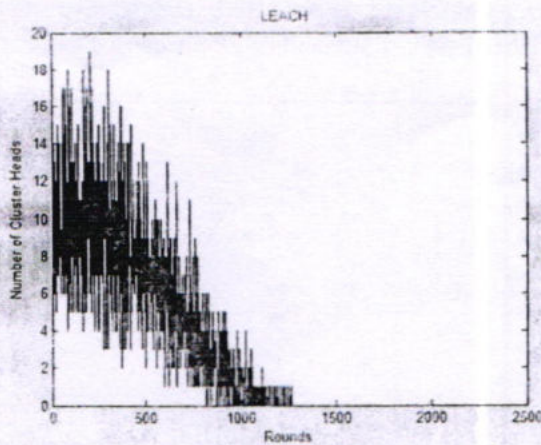


Fig 1.6 Throughput of Leach Protocol

From the above Fig 1.6 it could be observed that when no. of nodes reduces, packet transmission also reduces simultaneously.

B. TSEP PROTOCOL

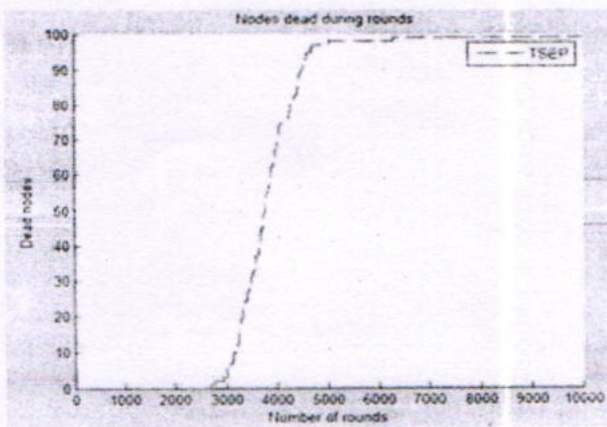


Fig 1.7 No of rounds and dead nodes

From the above Fig 1.7 we can see that the no. of dead nodes in each using TSEP protocol. X- axis consist of no. of rounds and Y-axis consist of no. of dead nodes in each round.

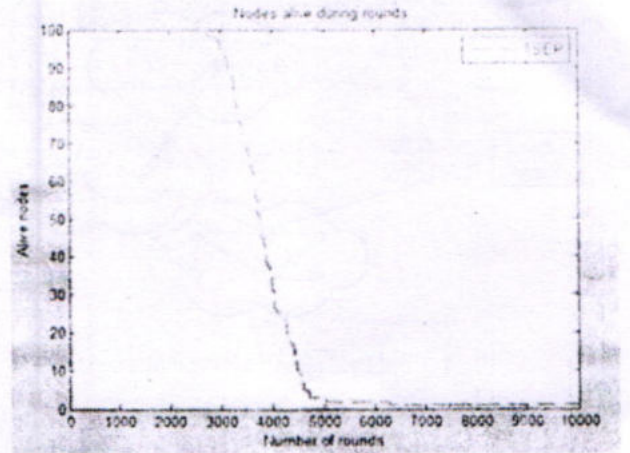


Fig 1.8. No of alive node per round in TSEP protocol

From the above Figure 1.8 X - axis consist of no. of rounds and y-axis consist of no. of alive nodes. In each round, the total number of alive nodes in each round in TSEP protocol could be identified.

Mostly SEP and LEACH protocols are considered as heterogeneous. The cluster head selection also happens to be probability based. LEACH protocol is considered as Homogeneous. ESEP protocol here shows three levels of heterogeneity.

C. ESEP PROTOCOL

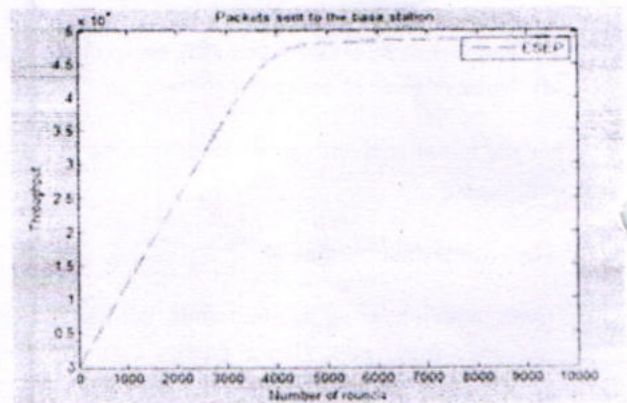


Fig 1.9 Throughput of ESEP protocol

From the above Fig 1.9 it could me clearly identified that the throughput of TSEP is significantly larger than LEACH and SEP. Here field dimension used is 100*100m. The average no. of sensors used for each phase is 100m. Maximum distance from source node to sink is also considered as 100m.

VI. CONCLUSION

In this work the performance of SEP, TSEP and LEACH protocol against network lifetime was analyzed. All are heterogeneous in nature. All use clustering techniques to sustain the energy of nodes. Simulation results show that with TSEP, the network life time can be increased. From the LEACH analysis it could be identified clearly that when no. of nodes reduces packet transmission delay also gradually increases.

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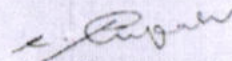
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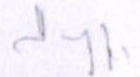

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*5th International Conference on Applied Science
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Multi-Purpose Solar Operated Agriculture Machine

Vijai R., Mechanical Engineering Department, Asst.Prof., Sri Sairam College Of Engineering, Bengaluru,INDIA
Santhosh H K., Mechanical Engineering Department, USN:ISB14ME096, Sri Sairam College Of Engineering, Bengaluru,INDIA
Satish H., Mechanical Engineering Department, USN:ISB14ME100, Sri Sairam College Of Engineering, Bengaluru,INDIA
Rahul M., Mechanical Engineering Department, USN:ISB14ME084, Sri Sairam College Of Engineering, Bengaluru,INDIA
Rajashekhhar R., Mechanical Engineering Department, USN:ISB14ME085, Sri Sairam College Of Engineering, Bengaluru,INDIA

Abstract:--

Rapid Solar energy technologies have attracted significant attention of researchers all over the world. Solar energy has attractive characteristics, solar energy is clean, abundant, widespread, and renewable the main aim for our project has been to develop a multi-purpose solar operated agricultural machine, which is solar powered. In this machine we have used a solar panel to capture and convert solar energy into electrical energy which in turn is used to charge two 12V batteries, which then gives the necessary power to a shunt wound DC motors. This power is then transmitted to the rear wheel through belt drives. The speed is maintained constant using geared arrangement. Consequently, in this project an attempt is made to make the electric and mechanical systems share their powers in an efficient way.

Key words:--

SOLAR PANEL, DC MOTOR, 12V BATTERY,SEED PLATE, SEED SOWING, SOIL COVERING.

17th-18th May 2018

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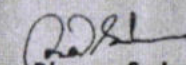
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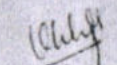


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Design and Development of Single Screw Extruding Machine for Bio-Composites

Vinod Kumar Biradar., Asst. Professor Department of Mechanical Engineering Sri sairam college of Engineering Anekal Bangalore

Akshat Joshi., UG Student Department of Mechanical Engineering, Sri sairam college of Engineering Anekal Bangalore

Aryan Kumar Jaiswal., UG Student Department of Mechanical Engineering, Sri sairam college of Engineering Anekal Bangalore

Nithin S A., UG Student Department of Mechanical Engineering, Sri sairam college of Engineering Anekal Bangalore

Shanthveerayya S H., UG Student Department of Mechanical Engineering, Sri sairam college of Engineering Anekal Bangalore

Abstract:--

New advances in screw design and mixing sections have allowed processors to take advantage of new resins, higher production rates and improved product quality. The three main zones – compression, mixing, metering, of extrusion process must be considered while designing the extruder. The L/D ratio plays an important role in designing the screw. Material selection, power required, melt viscosity, and other important parameters are determined/calculated using suitable formulae. This project aims at designing a low- cost, portable single screw extruder. The main objective is to compact the size of the machine without harming its ability to extrude.

Keywords: –

Plastic Extrusion, Single Screw Extruder, Plastics Processing.

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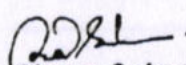
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


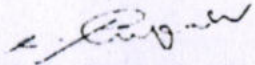
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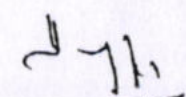

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Holography

Dr. Gangavathi P., Associate professor and Head, Sri SaiRam College of Engineering, Anekal, Bangalore.

K GaneshKumar Reddy., UG Student, Sri Sai Ram College of Engineering

K Nikhil Kumar., UG Student, Sri Sai Ram College of Engineering

Sree Balaji N S., UG Student, Sri Sai Ram College of Engineering

Shrishail., UG Student, Sri Sai Ram College of Engineering

Abstract:--

Holography is study of holograms and is a modern imaging technique which was created by the research and applications of numerous physicists, chemists, mathematicians, engineers and scientists, and which is still being continued to develop with this technique. Recording and storage of light and sound, and reconstruction of the same at desired time and space is intended mainly used scientific and technological research. The types of holograms based on their colours, dimensions and angle of projections...etc. The recording and reconstruction of a normal hologram and formation of the hologram. In this study we have shown that how holograms are constructed using multiple projectors, advantages and its applications

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Studies on TQM practice in Small and Medium scale Enterprises

Lakshmi Kumari., Associate Professor, Ballari Institute of Technology & Management, Bellary, India

Dr. Vijaya Kumar., Principal, Sairam College of Engineering , Anekal, Bangalore.

Abstract:--

Manufacturing firms are greatly relying on the principle of total quality management (TQM) to compete the challenges of current market trends in the era of globalization and privatization. Particularly, the small and medium scale enterprises (SME's) plays a vital role in providing employment and boosting the economy of the developing country like India. However, the quality of product is an important factor for the products are being manufactured to fulfill the customer satisfaction in SME's. The study on product quality improvement shows that meeting customer satisfaction, profit increase and minimizing losses to a lower level can be attained through the application of advanced quality philosophies and principles such as TQM. The objective of the study is to identify the critical success factors that contribute to the performance of quality management practices in SME's s and as well to establish a guideline that the management can take care off to improvise their firm's productivity. The present study includes a questionnaire survey in order to implement TQM practices in the structure of governance in SME's. The critical factors are arranged according to the priority after the data is collected. Three hypothesis are formulated based on employee satisfaction, customer satisfaction and operational effectiveness. At the end, statistical test is carried out for each hypothesis using T-test. It is summarized that the hypothesis stating TQM SME's are more effective in operation and fulfilling employees, and customers is proposed.

Keywords:--

Total quality management(TQM), Small and Medium scale Enterprises (SME's), Quality, T-test.

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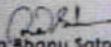
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This is to certify that Vinod kumar Biradar of
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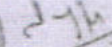

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4th International Conference On Chip, Circuitry, Current, Coding, Combustion & Composites

Anekal, Bengaluru, 16th -17th November 2017

A Comparison of Basalt Fibre with that of Basalt (Rock) for a Composite Application

R Ranjith Kumar, Scholar of Sri Sairam College of Engineering

Rajnish R Dubey, Scholar of Sri Sairam College of Engineering

Bharath Kumar, Scholar of Sri Sairam College of Engineering

Dr C Anil Kumar, Professor, Department of Mechanical Engg, Sri Sairam College of Engineering

Vinod kumar Biradar, Asst. Professor, Department of Mechanical Engg, Sri Sairam College of Engineering

Abstract:--

In the present days technological life the components with composite material is growing every year more than 10 % throughout the world. One of the basic reinforcing elements of composite materials is fibers because fibrous materials are widely applied in quality of thermal, sound-proof, strength and so on. Another basic reinforcing elements of composite materials is particulates in the form of flakes or short fiber, these material size and structures vary from Nano to micro depending upon the application. The present investigation is to have a comparison between the Basalt rock properties with that of Basalt fibers for several applications.

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ISBN: 978-81-932966-3-9

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4th International Conference On Chip, Circuitry, Current, Coding, Combustion & Composites

Anekal, Bengaluru, 16th -17th November 2017

Heat Death of the Universe

Vinod Kumar biradar., Assistant professor, Department of Mechanical Engineering, Sri Sairam College of Engineering, Anekal, Bengaluru-562106

Sudarshan.D., UG Scholar, Department of Mechanical Engineering, Sri Sairam College of Engineering, Anekal, Bengaluru-562106.

Sanjay.M.K., UG Scholar, Department of Mechanical Engineering, Sri Sairam College of Engineering, Anekal, Bengaluru-562106.

SaiBaba., UG Scholar, Department of Mechanical Engineering, Sri Sairam College of Engineering, Anekal, Bengaluru-562106.

SandeepInamati., UG Scholar, Department of Mechanical Engineering, Sri Sairam College of Engineering, Anekal, Bengaluru-562106.

Abstract:--

Heat Death is a state of a Thermodynamic system having reached maximum entropy; Temperature is uniform throughout, and no energy is available to do work. So this theory is applied for the Universe where the Second Law of Thermodynamics states that Entropy that increases in an isolated system (in our case it's the Universe) Entropy, which is the number of ways in which a system can be arranged should never decrease, evolving to a state of maximum disorder (or thermodynamic equilibrium). When this happens, all energy will be evenly distributed throughout the cosmos, leaving no room for any reusable energy or heat to burst into existence. Processes that consume energy, which includes our very living on Earth, would cease or End.

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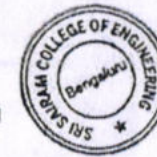
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Nano composites and Their Applications

Balaji.v., Asst.Professor, HOD, Department of Mechanical Engg, Sri Sairam College of Engineering, Bangalore

B.Manasa., UG Students, Department of Mechanical Engg, Sri Sairam College of Engineering, Bangalore

Aakash.N., UG Students, Department of Mechanical Engg, Sri Sairam College of Engineering, Bangalore

Chandrakaanth BS., UG Students, Department of Mechanical Engg, Sri Sairam College of Engineering, Bangalore

Kiran Kumar KC., UG Students, Department of Mechanical Engg, Sri Sairam College of Engineering, Bangalore

Abstract:--

This paper/document gives the information regarding a brief introduction to nanocomposites, types of nanocomposites and their general applications. The idea behind Nanocomposite is to use building blocks with dimensions in nanometer range to design and create new materials with unprecedented flexibility and improvement in their physical properties. In the broadest sense this definition can include porous media, colloids, gels and copolymers, but is more usually taken to mean the solid combination of a bulk matrix and Nano-dimensional phase(s) differing in properties due to dissimilarities in structure and chemistry. The mechanical, electrical, thermal, optical, electrochemical, catalytic properties of the nanocomposite will differ markedly from that of the component materials. Size limits for these effects have been proposed

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ISBN: 978-81-932966-3-9

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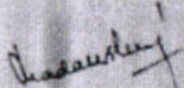
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"4th International Conference on Chip, Circuitry, Current, Coding, Combustion & Composites
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Design and Fabrication of Electro Eduction by Onroad Dynamic and Fluids

J.Dilip Singh., Assistant Professor, Department of mechanical

J.Jeyasri., Assistant Professor, Department of mechanical

Jaffar Sadiq., UG Scholar, Department of Mechanical Engineering

P.Karuppusamy., UG Scholar, Department of Mechanical Engineering

K.Manibharathi., UG Scholar, Department of Mechanical Engineering

Abstract:--

This project mainly deals with the production of the electricity in an innovated technique in order to cater with the problem our country is facing in its recent days. This project deals with a unique technique for the continuous production of electricity without any input of any energy. The project deals with the basic theory called as the electromagnetic induction. The electromagnetic induction principle is used in a different scenario and in a different setup for the continuous production of the electricity.

16th - 17th November 2017

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ISBN: 978-81-932966-3-9

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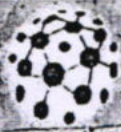
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ISBN: 978-81-912966-0-8

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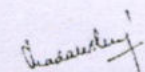
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Dept. of Computer Science & Engineering
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Mathematical Modelling of Population Growth

Venkatesha P., Assistant Professor, Department of Science and Humanities, Sri Sairam College of Engineering, Anekal, Bengaluru, India.

G.BlessySachy Eunice., First Semester, Department of Mechanical Engineering, Sri Sairam College of Engineering, Anekal, Bengaluru, India

Akshaya B., First Semester, Department of Computer Science Engineering, Sri Sairam College of Engineering, Anekal, Bengaluru, India.

Arya Kumari S., First Semester, Department of Computer Science Engineering, Sri Sairam College of Engineering, Anekal, Bengaluru, India.

Abstract:--

We cannot have a sustainable planet without stabilizing population. As human population increase, humans demand for resources like water, land, trees, and energy. Unfortunately, the price of all this "increase and demand" is paid for by the other endangered plants, animals and natural resources in an increasingly volatile and dangerous climate. This necessitates a mathematical model to predict the future population in terms of growth rate and population figures with reasonably virtuous accuracy. Mathematics being one of the languages of sciences, Mathematical models can predict the behaviour of systems based on physics, chemistry, biology etc. There are certain mathematical models to effectively predict economic and social systems including the population growth. The present work deals with mathematical modelling of population growth using exponential and logistic growth model, which is nothing but the differential equations, with which we can study the changes in size of populations through time, which helps us predict the population of a certain place at a certain time. The prediction is compared with the actual population of the past, based on the model which predicts the population with better accuracy, which can be used to predict the growth rate of the future population.

Keywords:--

Mathematical modelling, Population growth, Logistic growth, Exponential growth, Growth rate, Differential equations.

16th - 17th November 2017

i7C - 17

ISBN: 978-81-932966-3-9

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during
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4th International Conference On Chip, Circuitry, Current, Coding, Combustion & Composites

Anekal, Bengaluru, 16th -17th November 2017

Mathematical Modelling of Traffic Flow on Highway

Venkatesha.P., Assistant professor, Department of Science & Humanities, Sri Sairam College of Engineering, Anekal, Bengaluru, India

Ajith.M., 1st semester, Department of Computer Science and Engineering, Sri Sairam College of Engineering, Anekal, Bengaluru, India

Abhijith Patil., 1st semester, Department of Electronics & Communication Engineering, Sri Sairam College of Engineering, Anekal, Bengaluru, India.

Dhamini.T., 1st semester, Department of Electronics & Communication Engineering, Sri Sairam College of Engineering, Anekal, Bengaluru, India.

Abstract:--

This paper intends a mathematical model for the study of traffic flow on the highways. This paper develops a discrete velocity mathematical model in spatially homogeneous conditions for vehicular traffic along a multilane road. The effect of the overall interactions of the vehicles along a given distance of the road was investigated. We also observed that the density of cars per mile affects the net rate of interaction between them. A mathematical macroscopic traffic flow model known as light hill, Whitham and Richards (LWR) model appended with a closure non-linear velocity-density relationship yielding a quasi-linear first order (hyperbolic) partial differential equation as an initial boundary value problem (IBVP) was considered. The traffic model IBVP is a finite difference method which leads to a first order explicit upwind by difference scheme was discretized.

Key words:-

Mathematical modeling, traffic flow, Homogeneous conditions, Multilane road, Velocity-density, Quasi-linear first order (hyperbolic) partial differential equation, Finite difference method.

16th - 17th November 2017

i7C-17

ISBN: 978-81-932966-3-9

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Sri Sairam Nagar, Gubbi Road
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*4th International Conference On Chip, Circuitry,
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Anekal, Bengaluru, 16th -17th November 2017

Mathematical Modelling Of Predator-Prey Equations

Venkatesha.P., Assistant professor, Department of Science and Humanities, Sri Sairam College of Engineering, Anekal, Bengaluru, India.

Brunda.S., 1st Semester, Department of Computer Science Engineering, Sri Sairam College of Engineering, Anekal, Bengaluru, India.

Dhanush.N., 1st Semester, Department of Mechanical Engineering, Sri Sairam College of Engineering, Anekal, Bengaluru, India.

Ambresh.V., 1st Semester, Department of Electrical & Electronics Engineering, Sri Sai Ram College of Engineering, Anekal, Bengaluru, India.

Abstract:—

The paper intends theoretical and mathematical aspects of the known predator-prey problem that are considered by relaxing the assumptions that interaction of a predation leads to little or no effect on growth of the prey population and the prey growth rate parameter is a positive valued function of time. Prototypes may lead to the most engrossing and conspicuous mathematical result but only those prototypes are endurable which can expound envision or regulate the milieus. A variation method is used to build a numerical solution by differential equations. The dependence of amplitude and a frequency of damped vibrations on parameters characterizing the mobility of species is estimated. Derivations and simulation studies are provided in the paper. Analysis of equilibrium points and stability is also included.

Keywords:—

Mathematical modelling, variation methods, numerical solution, differential equations and Simulations.

16th - 17th November 2017

i7C - 17

ISBN: 978-81-932966-3-9

Organized by:
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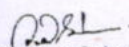


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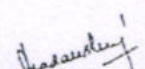
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16th - 17th November 2017, Bengaluru

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4th International Conference On Chip, Circuitry, Current, Coding, Combustion & Composites

Anekal, Bengaluru, 16th -17th November 2017

Mathematical Modelling of Blood Glucose Level By Glucose Tolerance Test

Venkatesha.P., Assistant Professor, department of science and humanities Engineering, Sri Sairam college of Engineering, Anekal, Bengaluru, India.

S. Abilash., 1st Semester, Department of Electronics and communication Engineering, Sri Sairam college of Engineering, Anekal, Bengaluru, India.

Abhishek S Shreyakar., 1st Semester, Department of Electronics and communication Engineering, Sri Sairam college of Engineering, Anekal, Bengaluru, India.

Ayana Chandran., 1st Semester, Department of Electronics and communication Engineering, Sri Sairam college of Engineering, Anekal, Bengaluru, India.

Abstract:--

A complete description of the response of man to large doses of glucose involves the use of more than sixteen rate constants the response of blood-glucose concentration (G) as a function of time (t) can be represented adequately by an equation involving only four constants in the equation: $G=G_0+ Ae^{-\alpha t} \sin \omega t$. The values of these four constants are defined by the four measurements usually made in an ordinary glucose-tolerance test. A new mathematical model for Blood Glucose Regulatory System(BGRS) which includes epinephrine as a third variable in the form, $Y' = AY$, and whose solution has been analysed for equilibrium and stability to provide the blood glucose concentrations for diabetics and non-diabetics. The glucose-insulin regulatory system in relation to diabetes is given, enhanced with a survey on available software. The models are in the form of ordinary differential, partial differential, delay differential and integro-differential equations. The human body needs continuous and stable glucose supply for maintaining its biological functions. Stable glucose supply comes from the homeostatic regulation of the blood glucose level, which is controlled by various glucose consuming or producing organs. Commonly observed combinations of parameter values, the coupled model would not admit equilibrium and the concentration of active insulin in the "distant" compartment would be predicted to increase without bounds. For comparison, a simple delay-differential model is introduced, is demonstrated to be globally asymptotically stable around a unique equilibrium point corresponding to the pre-bolus conditions, and is shown to have positive and bounded solutions for all times.

Key words:-

Mathematical Modelling, Blood Glucose Regulatory System, Glucose Tolerance Test, Ordinary Differential Equations and Partial Differential Equations.

16th - 17th November 2017

i7C - 17

ISBN: 978-81-932966-3-9

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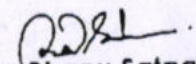


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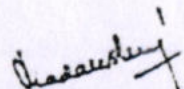
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This is to certify that A.JyothiSireesha of
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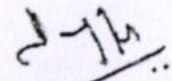

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Anekal, Bengaluru, 16th -17th November 2017

Nano Technology in Waste Water Treatment

Dr. Gangavathi., Associate Professor, Sri SaiRam College of Engineering, Anekal , Bangalore-562106
A.JyothiSireesha., Assistant Professor, Sri SaiRam College of Engineering, Anekal , Bangalore-562106
Sanjitha.P., UG Scholar, Sri Sairam College of Engineering, Anekal, Bengaluru - 562 106
Sree Balaji N S., UG Scholar, Sri Sairam College of Engineering, Anekal, Bengaluru - 562 106
Vinay K N., UG Scholar, Sri Sairam College of Engineering, Anekal, Bengaluru - 562 106

Abstract:-

One of the most interesting things about nanotechnology is that the properties of many materials change when the size scale of their dimensions approaches nanometres. Materials scientists work to understand those property changes and utilize them in the processing and manufacture of materials at the nanoscale.

Nanotechnology might be able to increase the retrieve of waste water, but the most promising application of nanotechnology is the reduction of cost for recycling plant. Nanotechnology in Waste water treatment in turn reuse, save water, avoid water scarcity and pollution causes due storage of water in open places. This paper provides an overview of Nano technology in the waste water treatment and effective usage of the same.

The potential implications that these technologies would have on our society are also discussed. Most of the engineering and science, major research process are carried out with nanotechnology. Nano science and engineering is at the heart of it across all disciplines. For those who are passionate about nanotechnology, Material science and engineering is place for the most research, coursework, and experience in nanotechnology.

16th - 17th November 2017

i7C-17

ISBN: 978-81-932966-3-9

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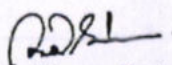
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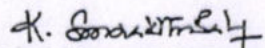
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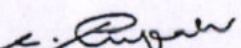
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of Sri Sairam College of Engineering, Bangalore presented
his/her research paper titled *APPLICATION OF NANOTECHNOLOGY IN DESIGN & MATERIAL SCIENCE FIELD*
..... during 3rd International Conference on
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on 18th - 19th May 2017.

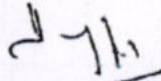

Mr.Rudra Bhanu Satpathy
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Dr.K.Sivasakthi Balan
Prof. & Head (Mech.)
SSCE, Anekal




Prof.C.Sivaprakash
Prof. & Head (ECE)
SSCE, Anekal


Dr.Y.Vijaya Kumar
Principal
SSCE, Anekal

Dr.Y.Vijaya Kumar
Principal
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Sri Lee Nagar, Geddanehall Post,
Anekal, Bengaluru - 562 108

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18th - 19th May '17 Bengaluru, Karnataka

Application of Nanotechnology in Design & Material Science Field

A. Jyothi Sireesha, Asst Professor, Department of Physics, Sri SaiRam College of Engineering, Anekal, Bangalore.
Syed Abubaker, Mechanical Engineering, Sri SaiRam College of Engineering, Anekal, Bangalore-562106
Vivek Kumar, Mechanical Engineering, Sri SaiRam College of Engineering, Anekal, Bangalore-562106
Manasa, Mechanical Engineering, Sri SaiRam College of Engineering, Anekal, Bangalore-562106

Abstract:--

One of the most interesting things about nanotechnology is that the properties of many materials change when the size scale of their dimensions approaches nanometers. Materials scientists work to understand those property changes and utilize them in the processing and manufacture of materials at the nanoscale. The field of materials science covers the discovery, characterization, properties, and end-use of nanoscale materials.

Nanotechnology might be able to increase the efficiency of solar cells, but the most promising application of nanotechnology is the reduction of manufacturing cost. Utilizing nanotechnology in inexpensive solar cell would help to preserve the environment. This paper provides an overview of the current solar cell technologies and their drawbacks. Then, it explores the research field of Nano solar cells and the science behind them. The potential implications that these technologies would have on our society are also discussed.

Most other engineering majors work with nanotechnology, but materials science and engineering is at the heart of it across all disciplines. For those who are passionate about nanotechnology, MSE is place to be for the most research, coursework, and experience in nanotechnology. Our department also administers the Clark School's Interdisciplinary Minor Program in Nanoscale Science and Technology, a program open to any student majoring in Engineering, Physics, or Chemistry.

18th - 19th May '17

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ISBN: 978-81-932966-0-8

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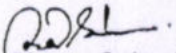


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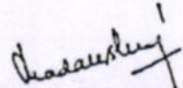
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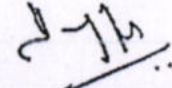

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Prof. K.V. Mallini
Program Chair
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Electrical & Electronics Engineering
Sri Sairam College of Engineering
Anekal, Bengaluru - 562 106.


Dr. B. Shadaksharappa
Program Chair
Head of the Department
Dept. of Computer Science & Engineering
Sri Sairam College of Engineering
Anekal, Bengaluru - 562 106.




Dr. Y. Vijayakumar
Conference Chair
Principal
Sri Sairam College of Engineering
Sal Leo Nagar, Guddanahalli Post,
Anekal, Bengaluru - 562 106

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4th International Conference On Chip, Circuitry, Current, Coding, Combustion & Composites

Anekal, Bengaluru, 16th -17th November 2017

NANOCOMPOSITIES

Prakash.V., Assistant Professor, Dept. of S&H, SSCE, Bengaluru, India.

Sonal R., UG student, 3rd sem, Dept. of CSE, SSCE, Bengaluru, India

Shubham Narnolia., UG student, 3rd sem, Dept. of CSE, SSCE, Bengaluru, India

Abstract:-

The definition of nanocomposites has broadened significantly to encompass a large variety of systems such as one-dimensional, two-dimensional, three-dimensional and amorphous materials, made of distinctly dissimilar components and mixed at the nanometer scale. This research presents a detailed definition of nanocomposites, its origin, classification, properties, benefits, as well as its future. With the proper choice of compatibilizing chemistries, the nanometer-sized clay platelets interact with polymers in unique ways. The paper shows that the application possibilities for packaging include food and non-food films and rigid containers. In the engineering plastics arena, a host of automotive and industrial components can be considered, making use of lightweight, impact, scratch-resistant and higher heat distortion performance characteristics. In plastics the advantages of nanocomposites over conventional ones don't stop at strength. The high heat resistance and low flammability of some nanocomposites also make them good choices to use as insulators and wire coverings.

Key words:-

Nano composites, nanoparticles, bio mineralization, nanomer, polymer.

16th - 17th November 2017

i7C - 17

ISBN: 978-81-932966-3-9

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