

Resume

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3. List of publications (Paper published during last 10 years)

S.No	Name of the Authors	Title of the Paper	Name of the Journal	Volume/ Pages	Year
1.	Poorna Shree.T, Rohini.C.M, Yogapriya.M, Dr.R.Sudarmani	Surveillance of Hazardous Gases in Sewage Plant using Intelligent Electronic Nose and IoT	International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering	Volume 8, Issue 5, May2020	2020
2.	Dr.R.Sudarmani , Mrs. R. Chitra, Mrs. G. Mahalakshmi Malini	Energy Efficient Data Aggregation in Automatic Irrigation System: Heterogeneous Sensor Networks With Mobile Sink	Journal of Applied Science and Computations	Volume 6 Issue 5 May- 2019, pp 3860-3866	2019
3.	Mrs. R. Chitra, Dr.R.Sudarmani , Mrs. G. Mahalakshmi Malini	A Comprehensive Survey: Survivability Techniques in WDM Optical Networks	Journal of Applied Science and Computations	Volume 6 Issue 5 May- 2019, pp 3855-3859	2019
4.	Mrs. G. Mahalakshmi Malini, Dr.R.Sudarmani , Mrs. R. Chitra	A Novel Canny Distributed Edge Detection Algorithm using VHDL	Journal of Applied Science and Computations	Volume 6 Issue 5 May- 2019, pp 3695-3699	2019
5.	R. Sudarmani , A.Akalya, B.Akshaya, T.Madhura	SN SCADA-DCS Implementation for Industrial Automation using Labview Through Zigbee	Journal of Applied Science and Computations	Volume 6 Issue 5 May- 2019, pp3741-3745	2019

6.	R. Sudarmani, S.S.Pooja Sri, N.S.Preethi, R.Priyadharshini	Development of Smart Shoes for Visually Impaired People Using IoT	Journal of Applied Science and Computations	Volume 6 Issue 5 May- 2019, pp 3751-3754	2019
7.	Deepthi.V, Karthika.K, Kowsika.R, Siva Keerthana, Sudarmani.R	Study of Gully Pot Monitoring System for Urban Areas	International Journal of Current Engineering and Technology	Vol.8, No.1	2018
8.	G. P. Darshan, B. S. Rohini, H Nagabhushana , R B Basavaraj, S C Sharma, R. Sudarmani	Fabricated CeO ₂ nanopowder as a novel sensing platform for advanced forensic, electrochemical and polycatalytic applications	Journal of Applied Nanoscience / Springer Appl Nanosci (2017) 7:815– 833 https://doi.org/10.1007/s13204-017-0611-x	Vol.7, pp 815-833	2018
9.	R. B. Basavaraj, H. Nagabhushana Darshan Prabhu Kumar, Daruka Prasad B, Rahul M, Sharma S C, Sudarmani R, Archana K.V	Red and Green Emitting CdSiO ₃ :Tb ³⁺ /Eu ³⁺ nanopowders as fluorescent labelling agents useful for forensic and display applications	Journal of Dyes and Pigments/ Elsevier doi.org/10.1016/j.dyepig.2017.08.011	Volume 147 , pp 364-377	2017
10	K. Banupriya, R. Sudarmani	Performance Analysis Of Dadda Multiplier Using 5:2 Compressor and Its Applications	International Journal of Advanced Information Science and Technology	Vol.3, issue 1	2016
11	K. Banupriya, R. Sudarmani	An accurate segmentation of brain tumor by FCM and K-means algorithm	International Journal of Modern Communication Engineering	ISSN:2321- 2152, vol 4, issue 1	2016
12	R. Sudarmani, R. Vanithamani	Minimum spanning Tree for Clustered Heterogeneous Sensor Networks with Mobile Sink	IEEE International conference on Computational Intelligence and Computing Research	ISBN 978-1- 4799-7847-2	2015

			(IEEE ICCIC)		
13	S. Kiruthika, R. Sudarmani	A High Resolution All- Digital Duty Cycle Corrector Using Reversible Multiplexer Logic	International Journal of Engineering Trends & Technology	Vol.22, Issue 1, pp. 27-30	2015
14	S. Kiruthika, R. Sudarmani	FPGA Implentation of High Resolution All- Digital Duty Cycle Corrector Using NAND Based Logic	International Journal of Advanced Research in Computer Engineering & Technology	Vol.4, Issue 3, pp. 0677-0680	2015
15	K. Banupriya, R. Sudarmani	A Fully Automated and Elegant Method for Segmentation and Classification of Brain MRI Images using K-means Algorithm and ANN	International Journal of Engineering Research	ISSN 2321-7758, vol 3, issue 2, pp 275-279	2015
16	R. Sudarmani , K.R. Shankar Kumar	Particle Swarm Optimization-based Routing Protocol for Clustered Heterogeneous Sensor Networks with Mobile sink	American Journal of applied sciences	Vol.10, No.3, pp.259-269	2013
17	Vishnu Priya, R. Sudarmani	Efficient Serial Multiplier Design using Ripple Counters, Kogge-Stone Adder and Full Adder	International Journal of Computer Applications	Vol.67, No.6, pp 33-38	2013
18	R. Sudarmani , K.R. Shankar Kumar	Energy-Efficient Clustering Algorithm for heterogeneous Sensor Networks with Mobile Sink	European Journal of Scientific Research	Vol.68 No.1, pp. 60-71	2012
19	R. Sudarmani , K.R. Shankar Kumar	Energy Efficient Adaptive Clustering	International Journal on Computer Science	Vol. 3 No. 12, pp. 3814-	2011

		for Heterogeneous Sensor Networks with power control	and Engineering	3823.	
20	Sudarmani, K.R. Shankar Kumar	Analysis of Energy Consumption in Heterogeneous Sensor Networks with Mobile sink	IEEE TENCON 2011(Archieved in IEEE Xplore)	pp.455-459	2011
21	R. Sudarmani, K.R. Shankar Kumar	Performance Evaluation of Heterogeneous Sensor Networks with ATPC and Load Balancing	International Journal of Computer Applications	Vol.12, No.3, pp. 49-54.	2010
22	R. Sudarmani, K.R. Shankar Kumar	Adaptive transmission power control based Energy Consumption Analysis in Heterogeneous Sensor Networks	Journal of Computing	Vol.2,pp.63-67	2010
23	R. Sudarmani, K.R. Shankar Kumar	Analysis of Energy Consumption in Sensor networks using a transmission range optimization	WSEAS conference, (Archieved in ACM Digital library).	pp. 172-176	2010