



R.M.D. ENGINEERING COLLEGE

(An Autonomous Institution)

R.S.M. NAGAR, KAVARAIPETTAI – 601206.



Department of Electronics and Communication Engineering

Faculty Research Publications (2019-2020)

SCOPUS / WoS Journal Publications

S. No.	Name of the Faculty	Title of the Paper	Name of the Journal	ISSN / Issue / Page No.	Indexed
1	Dr. K. Helenprabha	A structured support vector machine for hyper spectral satellite image segmentation and classification based on modified swarm optimization approach	Journal of Ambient Intelligence and Humanized Computing	DOI:10.1007/s12652-019-01643-1 ISSN: 1868-5137	SCI, Scopus
2	Dr. K. K. Thyagarajan	Micro-Facial Expression Recognition Based on Deep-Rooted Learning Algorithm	International Journal of Computational Intelligence Systems	https://doi.org/10.2991/ijcis.d.190801.001 ISSN:1875-6891	SCIE, Scopus
3	Dr. K. K. Thyagarajan	Micro-Facial Expression Recognition in Video Based on Optimal Convolutional Neural Network (MFEOCNN) Algorithm	International Journal of Engineering and Advanced Technology	DOI: 10.35940/ijeat.A9802.109119 ISSN:2249-8958	Scopus
4	Dr. K. K. Thyagarajan	Hand-Held Object with Action Recognition Based On Convolutional Neural Network in Spatio Temporal Domain	International Journal of Engineering and Advanced Technology	DOI: 10.35940/IJEAT.A1901.129219 ISSN:2249-8958	Scopus
5	Dr. K. K. Thyagarajan	A New Retrieval Algorithm Based on Pulse Coupled Neural Network for Biomedical Images	International Journal of Innovative Technology and Exploring Engineering	DOI: 10.35940/IJITEE.A1003.1191S19 ISSN:2278-3075	Scopus
6	Dr. K. K. Thyagarajan	Plant Species Classification through New Feature Extraction Model-	International Journal of Innovative Technology	DOI: 10.35940/IJITEE.A1006.1191S19 ISSN:2278-3075	Scopus

		Velocity Clamping Based Intersecting Cortical Model	and Exploring Engineering		
7	Dr. K. K. Thyagarajan	2D Information Space Based Action Recognition	International Journal of Innovative Technology and Exploring Engineering	DOI: 10.35940/IJITEE.A1060.1191S19 ISSN:2278-3075	Scopus
8	Dr. K. K. Thyagarajan	Change Detection using Deep Learning and Machine Learning Techniques for Multispectral Satellite Images	International Journal of Innovative Technology and Exploring Engineering	DOI: 10.35940/IJITEE.A1021.1191S19 ISSN:2278-3075	Scopus
9	Dr. K. K. Thyagarajan	Land Use and Land Cover Classification Using Deep Belief Network for LISS-III Multispectral Satellite Images	International Journal of Innovative Technology and Exploring Engineering	DOI: 10.35940/IJITEE.A1022.1191S19 ISSN:2278-3075	Scopus
10	Dr. K. K. Thyagarajan	Computer Vision-based Human Activity Recognition for Elderly Home Care	International Journal of Innovative Technology and Exploring Engineering	DOI: 10.35940/IJITEE.A1061.1191S19 ISSN:2278-3075	Scopus
11	Dr. K. K. Thyagarajan	A Review on Near-Duplicate Detection of Images using Computer Vision Techniques	Archives of Computational Methods in Engineering	DOI: 10.1007/S11831-020-09400-W ISSN: 1134-3060	S-SCI, Scopus
12	Dr. K. K. Thyagarajan	An Optimal Mode Selection Algorithm for Scalable Video Coding	International Journal of Computational Vision and Robotics	10.1504/IJENM.2020.103916 ISSN: 1752- 914X	Scopus
13	Dr. K. K. Thyagarajan	An Epitome of Deep Learning Algorithms, Frame Works and its Applications	Journal of Critical Reviews	vol. 7, No. 5, pp. 1343-1348, ISSN 2394- 5125	Scopus
14	Dr. D. Rukmani Devi	A Unique Approach to 3D Localization in Wireless Sensor Network by Using Adaptive Stochastic Control Algorithm	Applied Mathematics & Information Sciences	http://dx.doi.org/10.18576/amis/130414 ISSN:1935-0090	Scopus
15	Dr. D. Rukmani Devi	Online Data Security for Secure Cloud Storage	International Journal of Innovative Technology and Exploring Engineering	DOI: 10.35940/ijitee.A1023.1191S19 ISSN:2278-3075	Scopus
16	Dr. D. Rukmani Devi	Secure and Robust 3D Localization in Wireless Sensor Networks	International Journal of Innovative Technology and Exploring Engineering	DOI: 10.35940/ijitee.A1024.1191S19 ISSN:2278-3075	Scopus
17	Dr. D. Rukmani Devi	Performance Enhancement of Microstrip UWB Patch Antenna	International Journal of Innovative Technology	Scopus DOI: 10.35940/ijitee.A1025.1191S19 ISSN:2278-3075	Scopus

		with SRR for Wireless Body Area Networks	and Exploring Engineering		
18	Dr. D. Rukmani Devi	A Novel Authentication Mechanism for Cognitive Radio Network	International Journal of Recent Technology and Engineering	ISSN: 2277-3878, Volume-8 Issue-4	Scopus
19	Dr. D. Rukmani Devi	An efficient PCA based pose and occlusion invariant face recognition system for video surveillance	Cluster Computing, Springer,	https://doi.org/10.1007/s10586-017-1404-4	SCI, Scopus
20	Dr. D. Rukmani Devi	Light Weight Proactive Padding Based Crypto Security System in Distributed Cloud Environment	International Journal of Computational Intelligence Systems	ISSN:1386-7857 https://doi.org/10.2991/ijcis.d.200110.001	SCIE, Scopus
21	Dr. D. Rukmani Devi	Spectrum energy detection in cognitive radio networks based on a novel adaptive threshold energy detection method	Computer Communications	ISSN: 1875-6891 https://doi.org/10.1016/j.comco m.2019.12.058	SCI, Scopus
22	Dr. D. Rukmani Devi	Objective Edge Similarity Metric for denoising applications in MR images	Biocybernetics and Biomedical Engineering	ISSN: 01403664 DOI: 10.1016/J.BBE.2020.01.012 ISSN:0208-5216	WOS, Scopus
23	Dr. D. Rukmani Devi	Pose and occlusion invariant face recognition system for video surveillance using extensive feature set	International Journal of Biomedical Engineering and Technology	https://doi.org/10.1504/IJBET.2020.107759 ISSN:1752-6418	ESCI, Scopus
24	Dr. D. Rukmani Devi	A framework to reduce category proliferation in fuzzy ARTMAP classifiers adopted for image retrieval using differential evolution algorithm	Multimedia Tools and Applications	https://doi.org/10.1007/s11042-019-07887-5 ISSN:1380-7501	SCI, Scopus
25	Dr. D. Rukmani Devi	Classical energy detection method for spectrum detecting in cognitive radio networks by using robust augmented threshold technique	Cluster Computing	Vol. 79 Vol. 22, Page No. S11109–S11118 https://doi.org/10.1007/s10586-017-1311-8	SCI, Scopus
26	Dr. D. Sharmila	Wireless Charging of Electric Vehicle	International Journal of Innovative Technology and Exploring Engineering	EISSN: 1573-7543 DOI: 10.35940/ijitee.A1051.1191S19 ISSN:2278-3075	Scopus
27	Dr. C. Bennila Thangammal Dr. K. Ilamathi	Arrhythmia Recognition using ECG Morphology by Trained Feed Forward Neural Network	Gedrag & Organisatie Review	DOI :10.37896/GOR33.02/184 ISSN:0921-5077	WOS, Scopus (SSCI)

28	Dr. C. Shobana Nageswari Ms. C. Raveena	Identification and classification of Paddy ailments by Modified inception Architecture using network learning techniques	Journal of Critical Reviews	ISSN: 2394-5125, Vol. 7, No: 18	Scopus
29	Mr. S. Balasubramani	Smart Aquarium Management System	Advances in Parallel Computing Journal – Intelligent Systems and Computer Technology	Volume 37: ISBN 978-1-64368-102-3 ISSN :1879-808X (online) DOI: 10.3233/APC200196	Scopus
30	Dr. M. N. Vimal Kumar	Smart Helmet with Onboard Camera	International Journal of Control and Automation	ISSN: 2005-4297 Vol. 13, No : 4	Scopus
31	Mr. D. Bharathidasan	Non subsampled Contourlet Transform based video compression using Huffman and Runlength coding for multimedia applications	International Journal of Advanced Trends in Computer Science Engineering	ISSN: 2278 – 3091 Vol.9 No.3, pp 3100-3016	Scopus

Other Journal Publications

S. No.	Name of the Faculty	Title of the Paper	Name of the Journal	ISSN / Issue / Page No.	Indexed in
1	Dr. K. K. Thyagarajan	An improved downlink packet scheduling algorithm for delay sensitive devices in both H2H and M2M communications in LTE-advanced networks	International Journal of Enterprise Network Management	DOI: 10.1504/IJENM.2020.103916 ISSN: 1748-1252	Google Scholar
2	Dr. K. K. Thyagarajan	Expression Modelling of Facial Dataset Using DCGAN For Facial Expression Recognition	Solid State Technology	ISSN: 0038-111X vol. 7, No. 5, 2020	Google Scholar
3	Dr. K. K. Thyagarajan	Auto-Encoded Detection of Hand & Human Action based on Convolution based neural networks (CNN)	Solid State Technology	ISSN: 0038-111X vol. 63, No. 6, 2020	Google Scholar
4	Dr. D. Rukmani Devi	A Review on Sewer Sensor Monitoring System Based on Embedded System	The International Journal of analytical and experimental modal analysis	ISSN No:0886-9367, Vol XII(V)	UGC Approved
5	Dr. D. Rukmani Devi	Robust 3D Localization using Cubical Geometry in Wireless Sensor Networks	Solid State Technology	ISSN: 0038-111X vol. 63, No. 6, 2020	Google Scholar

6	Dr. A. Sumaiya Begum	Evaluation and Risk Identification of Diabetic Foot Ulcers using SVM Algorithm	International Journal of Innovative Research in Technology	ISSN: 2349-6002 Vol.6(12)	Google Scholar
7	Dr. A. Sumaiya Begum	Diagnosis of Leaf Disease using Enhanced Convolutional Neural Network	International Journal of Innovative Research in Applied Sciences and Engineering	Doi: 10.29027/IJRASE.v3.i12.2020 ISSN : 2456-8910	Google Scholar
8	Ms. P. Poonkuzhali	Classification of Hyperspectral Images using convolutional Neural Network	International Journal of Innovative Research in Technology	ISSN:2349-6002, Vol. 6, Issue-11	Google Scholar
9	Ms. P. Poonkuzhali	Segmentation and Classification of Brain Tumor using Deep Learning	International Journal of Innovative Research in Technology	ISSN: 2349-6002 Vol.6(11)	Google Scholar
10	Dr. C. Bennila Thangammal	Design of IoT enabled Environmental Monitoring system for smart cities	International Journal of Innovative Research in Technology	ISSN:2349-6002, Vol. 6, Issue-11	Google Scholar
11	Dr. C. Shobana Nageswari	Single Image Haze Removal using Contextual Regularization	International Journal of Innovative Technology and Exploring Engineering	ISSN:2278-3075 Vol. 9, Issue-4	Google Scholar
12	Dr. C. Shobana Nageswari	Water to Water communication base Agriculture Field Monitoring	International Journal of Advanced Research in Electrical Electronics and Instrumentation Engineering	EISSN: 2278-8875 Vol 9(5)	Google Scholar
13	Mr. S. Balasubramani	A Rescue mechanism for Borehole accident using Robotics	International Journal of Scientific Research & Development	ISSN:2321-0613, Vol. 6, Issue-3	Google Scholar
14	Dr. K. Ilamathi	A railway collision avoidance system exploiting intervehicle communications	International Journal of Innovative Research in Technology	ISSN: 2349-6002 Vol.6(11)	Google Scholar
15	Dr. K. Ilamathi	Single Image Haze Removal using Contextual Regularization	International Journal of Innovative Technology and Exploring Engineering	ISSN:2278-3075 Vol. 9, Issue-4	Google Scholar
16	Dr. K. Ilamathi	Integration of Intelligent Conversational Software or Chat-Bot	International Journal of Innovative Research in Science, Engineering and Technology	ISSN: 2319-8753 Vol 9, Issue 5	Google Scholar

17	Ms. R. Aarthi	Smart Wearable Device for women safety using Internet of Things	International Journal of Innovative Research in Science, Engineering and Technology	ISSN: 2319-8753 Vol. 9, Issue 3	Google Scholar
18	Ms. R. Aarthi	Intelligent Tracking for Inherent Potential Leakage Observance and Control System	International Journal of Innovative Research in Technology	ISSN: 2349-6002, Vol.6(12)	Google Scholar
19	Ms. C. Raveena	Electronic Noise – An IoT based Smart Drainage worker safety system	International Journal of Innovative Research in Technology	ISSN: 2349-6002, Vol.6(12)	Google Scholar
20	Ms. M. Shakunthala	Driver drowsiness and safety enhancement technique in vehicles using machine learning	International Journal of Innovative Research in Technology	ISSN: 2349-6002, Vol.7(1)	Google Scholar
21	Ms. M. Shakunthala	Computer assisted detection and counting for diagnosis of blood cancer	International Journal of Innovative Research in Technology	ISSN: 2349-6002, Vol.7(1)	Google Scholar
22	Ms. M. Shakunthala	Detection and Classification of Alzheimer’s disease using Machine Learning	International Journal of Innovative Research in Technology	ISSN: 2349-6002, Vol.7(1)	Google Scholar
23	Mr. M. Jyothi Prasad	Portable Visual Assistant System for Visually Impaired People Based On Raspberry PI	International Journal of Innovative Research in Technology	ISSN: 2349-6002, Vol.6(11)	Google Scholar
24	Mr. M. Jyothi Prasad	Hybrid methodology for speckle noise reduction in medical ultrasound images with coherence enhancement	International Journal of Innovative Research in Technology	ISSN: 2349-6002, Vol.7(1)	Google Scholar
25	Mr. P. Arul	Wireless Animatronic Hand using Control Glove	International Journal of Innovative Research in Technology	ISSN: 2349-6002, Vol.7(1)	Google Scholar
26	Ms. R. Hemalatha	Detection and Grading of Macular Edema using Convolutional Neural Network	International Journal of Innovative Research in Technology	ISSN: 2349-6002, Vol.7(1)	Google Scholar
27	Dr. M. N. Vimal Kumar	Single Image Haze Removal using Contextual Regularization	International Journal of Innovative Technology and Exploring Engineering IJIRT	ISSN:2278-3075 Vol. 9, Issue-4	Google Scholar
28	Dr. M. N. Vimal Kumar	Feasibility Study and Implementation of Sea Researcher’s Bio-Parameters Monitoring by Water Channel Model		Vol. 7, No. 1, pp. 200-206	Google Scholar

29	Mr. B. Jaiganesh	Crop yield measurement in multispectral Image	International Research Journal of Modernization in Engineering Technology and Science	EISSN: 2582-5208 Vol 2(4)	Google Scholar
30	Mr. B. Jaiganesh	Intelligent Vehicle Communication for prevention of Road Accident	International Journal of Advanced Research in Electrical Electronics	EISSN: 2278-8875 Vol 9(5)	Google Scholar
31	Mr. V. S. Prabhu	Smart Surveillance for Intruder Identification in Forest Areas Using Image Processing	International Journal of Innovative Research in Technology	ISSN: 2349-6002, Vol.7(1)	Google Scholar
32	Ms. K. Nathiya Devi	Impulse Suit: A Real Time Artificial CPR device for Cardiac Arrest	International Journal of Innovative Research in Technology	ISSN: 2349-6002, Vol.6(11)	Google Scholar
33	Ms. K. Nathiya Devi	Plant leaf disease diagnosis from color imagery using Co-concurrence Matrix and Artificial Intelligence system	International Journal of Engineering and Technology	ISSN: 2395-0056, Vol.7(4)	Google Scholar
34	Ms. K. Nathiya Devi	Boat Localization and Warning system for border identification	International Journal of Innovative Research in Technology	ISSN: 2349-6002, Vol.7(1)	Google Scholar
35	Ms. G. Brenie Sekar	Application of Deep Learning Algorithm for Breast Cancer Classification Using Fully Convolutional Neural Networks	International Journal of Innovative Research in Technology	ISSN: 2349-6002, Vol.6(12)	Google Scholar
36	Ms. G. Brenie Sekar	A Smart Disinfected Under Ground Trash Collecting And Clearing System	International Journal of Innovative Research in Technology	ISSN: 2349-6002, Vol.6(12)	Google Scholar