



R.M.D. ENGINEERING COLLEGE

(An Autonomous Institution)

R.S.M. NAGAR, KAVARAIPETTAI – 601206.

Department of Electronics and Communication Engineering



Faculty Research Publications (2021-2022)

SCOPUS / WoS 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. Helenprabha Ms. P. Santhoshini	FDTD Based Simulation of Light Extraction in OLED using Triangular Band Structure	IETE Journal of Research	ISSN: Print Online ISSN. 03772063 https://doi.org/10.1080/03772063.2021.1947907	SCIE
2	Dr. K. Helen Prabha Mr. P. Arul	A Comprehensive Analysis of Short Channel Effects on Carbon NanoTube Field Effect Transistors	Journal of Nanoelectronics and Optoelectronics	ISSN 1555-1318 Vol. 16, No. 12, pp. 1–8, 2021	SCIE
3	Dr. K. HelenPrabha	IoMT aware data collective quadratic ensembled cat boost module classification algorithm for non-invasive blood glucose monitoring in VLSI design	Journal of Intelligent & Fuzzy Systems	DOI: 10.3233/JIFS-220315 ISSN 1064-1246 Vol. 43, No. 4, pp. 4243-4253	SCIE
4	Dr. K. HelenPrabha	Multimodal Medical Image Fusion using Genetic Algorithm Based Wave Atom Transform Approach	Neuro Quantology	ISSN No.1303-5150/ Issue 6/Page No.4390-4397/ doi:10.14704/nq.2022.20.6.NQ22437	Scopus
5	Dr. KK. Thyagarajan	Diagnosis of Neem Leaf Diseases Using Fuzzy-HOBINM and ANFIS Algorithms	Computers, Materials & Continua	Vol.69, No.2, 2021, pp.2061-2076, doi:10.32604/cmc.2021.017591	SCIE
6	Dr. K. K. Thyagarajan	Classifying Indian Medicinal Leaf Species Using LCFN-BRNN Model	KSII Transactions on Internet and Information Systems	eISSN: 1976-7277 Vol. 15, No. 10 http://doi.org/10.3837/tiis.2021.10.013	SCIE
7	Dr. K. K. Thyagarajan	Image Manipulation Detection through Laterally Linked Pixels and Kernel Algorithms	Computer Systems Science and Engineering	DOI: 10.32604/csse.2022.020258 Vol. 41, No.1, 2022 ISSN: 0267-6192	SCIE

8	Dr. K. K. Thyagarajan	A composite framework of deep multiple view human joints feature extraction and selection strategy with hybrid adaptive sunflower optimization-whale optimization algorithm for human action recognition in video sequences	Computational Intelligence	ISSN:1467-8640 https://doi.org/10.1111/coin.12499 Vol. 38, Issue 2	SCIE
9	Dr. D. Rukmani Devi	FPGA-based adaptive linear-line approximation and implementation for optimum photovoltaic device power control	Journal of Physics: Conference Series	ISSN:1742-6588 Vol No. 1964 Page No. 1-6 doi:10.1088/1742-6596/1964/6/062087	SCOPUS
10	Dr. D. Rukmani Devi	IoT Based Monitoring and Alert System for Patients with Chronic Obstructive Diseases	Journal of Physics: Conference Series	ISSN:1742-6588 Vol No. 1964 Page No. 1-6 doi:10.1088/1742-6596/1964/6/062071	SCOPUS
11	Dr. D. Rukmani Devi	Association rule generation and classification with fuzzy influence rule based on information mass value	Journal of Ambient Intelligence and Humanized Computing SPRINGER	https://doi.org/10.1007/s12652-020-02280-9 ISSN: 1868-5137 Vol 12. No. 7	SCIE
12	Dr. D. Rukmani Devi	Designing the routing protocol with secured IoT devices and QoS over Manet using trust-based performance evaluation method	Journal of Ambient Intelligence and Humanized Computing, SPRINGER	DOI: 10.1007/S12652-020-02358-4 ISSN: 1868-5137 Vol 12. No. 7	SCIE
13	Dr. D. Rukmani Devi	Measurement of Haemoglobin using Digital Photographs of Mucous Membrane of Eye	Natural Volatiles and Essential Oils Journal	e-ISSN: 2148-9637 Vol. 8, No. 5, pp. 10560-10565	SCOPUS
14	Dr. C. Bennila Thangammal	NSCT and focus measure optimization based multi-focus image fusion	Journal of Intelligent & Fuzzy Systems	ISSN NO. 1064-1246 DOI: 10.3233/JIFS-202803 Vol. 41. No. 1	SCIE
15	Dr. A Sumaiya Begum Dr. K. Illamathi	Roadmap to Biomedical Image Segmentation and Processing – Background and Approaches	Design Engineering	ISSN: 0011-9342 Year 2021 Issue: 7 Pages: 8491 - 8504	SCOPUS
16	Dr. A. Sumaiya Begum	Forecasting Bitcoin price using time opinion mining and bi-directional GRU	Journal of Intelligent & Fuzzy Systems	DOI: 10.3233/JIFS-211217 vol. 42, no. 3, pp. 1825-1833, 2022 ISSN 1064-1246	SCIE
17	Dr. C. Shobana Nageswari	Real Time Interaction Approach for Aiding Typhlosis	International Journal of Early Childhood Special Education	DOI: 10.9756/INT-JECSE/V14I2.530 ISSN:1308-5581 Vol 14, Issue 02,	ESCI

18	Dr. C. Shobana Nageswari Ms. M. Shakunthala	Optimized Segmentation based Deep Learning Technique for Brain Tumor Classification	NeuroQuantology	Vol. 20, No. 6 DoI: 10.14704/nq.2022.20.6.NQ22506 ISSN:1303-5150	SCOPUS
19	Ms. P. Poonkuzhali	Hybrid precoding algorithm for massive MIMO system with imperfect channel knowledge	Materials Today: Proceedings, ELSEVIER	ISSN: 2214-7853 https://doi.org/10.1016/j.matpr.2021.07.218	SCOPUS
20	Mr. S. Balasubramani	Development of Novel Nano-Silver-Based Antenna for Green Agriculture	Advances in Materials Science and Engineering	ISSN 16878442 Volume 2021 Article ID 9065960 https://doi.org/10.1155/2021/9065960	SCIE
21	Ms. M. Shakunthala	Wireless Temperature Read Out System in an Industry to Prevent Outbreak of COVID Cases	Journal of Physics: Conference Series	ISSN:1742-6588 Vol No. 1964 Page No. 1-6 doi:10.1088/1742-6596/1964/6/062066	SCOPUS
22	Ms. M. Shakunthala	Convolutional Neural Network Architecture Based on FPGA with Reduced Requirements for Parameters	Journal of Physics: Conference Series	ISSN:1742-6588 Vol No. 1964 Page No. 1-6 doi:10.1088/1742-6596/1964/6/062082	SCOPUS
23	Mr. P. Arul Ms. Hemalatha R Ms. G. Anitha	Energy Effective Transference of DWT Image Over OFDM Fading Channel	International Journal of Future Generation Communication and Networking	ISSN: 2233-7853 Vol.14, No. 1, (2021), pp. 4784 - 4794	WOS (ESCI)
24	Mrs. S. Jayanthi	Online shopping management system using DJANGO framework	International Journal of International Early childhood special Education	Volume 14, No. 2(2022) DOI:10.9756/INT - JECSE/V1412.311 ISSN: 1308-5581	ESCI
25	Ms. G. Anitha	Implementation of Adaptive algorithms to improve QoS in Base station Antennas	Design Engineering	ISSN: 0011-9342 Issue 7 PP- 3921-3935	SCOPUS
26	Dr. S. G. Hymlin Rose	Channel - Aware Status System for the Detection of Selective Forwarding Attack in WSN	GIS Science Journal	ISSN 1869-9391 (Print) Volume 8, Issue 8, 2021, PP.1179-1193	SCOPUS

27	Dr. S. G. Hymlin Rose	Multifunctional Agricultural Robot Operated Through Mobile Phone	ECS Transactions	Vol.107, No. 1 Online ISSN: 1938-6737 Print ISSN: 1938-5862 DOI https://doi.org/10.1149/10701.5411ecst	SCOPUS
28	Dr. S. G. Hymlin Rose	Use of Alexnet Architecture in the Detection of Bone Marrow White Blood Cancer Cells	ECS Transactions	Vol.107, No. 1 DOI https://doi.org/10.1149/10701.5587ecst	SCOPUS
29	Dr. S. G. Hymlin Rose	Comparative analysis of internet of things (IoT) in supporting the health care professionals towards smart health research using correlation analysis	Bulletin of Environment, Pharmacology and Life Sciences	Vol.1, No.1, 2022 ISSN: 2277-1808	Additional WOS Zoological Record
30	M. Ayesha Nasreen	Long short-term memory -based power-aware algorithm for prompt heterogenous activity	International Journal of Communication Systems	https://doi.org/10.1002/dac.5163 ISSN/eISSN-1074-5351 / 1099-1131 Vol. 35, No. 10	SCIE

Conference Publications

S. No.	Name of the Faculty	Title of the Paper	Name of the Journal	ISSN / Issue / Page No.	Indexed in
1	Dr. K. Helenprabha	Sub-band Selection-Based Dimensionality Reduction Approach for Remote Sensing Hyperspectral Images	Lecture Notes in Networks and Systems	ISSN:2367-3370 https://doi.org/10.1007/978-981-16-7018-3_14 Pg.No. 167 to 178 Vol. 339	SCOPUS
2	Dr. K.K. Thyagarajan	Implementation and Performance Analysis of Various Models of PCNN for Medical Image Segmentation	Lecture Notes in Networks and Systems	https://doi.org/10.1007/978-981-16-3153-5_10 ISSN: 2367-3370 LNNS, volume 248 pp. 73-84	SCOPUS
3	Dr. K.K. Thyagarajan	Biomedical Scan Image Retrieval Using Higher Order Neural Networks	Lecture Notes in Networks and Systems	https://link.springer.com/chapter/10.1007/978-981-16-3153-5_13 LNNS, volume 248 pp.97-106	SCOPUS
4	Dr. K.K. Thyagarajan Mr. V. S. Prabhu	Denosing X-Ray Image Using Discrete Wavelet Transform and Thresholding	Lecture Notes in Electrical Engineering	ISSN: 1876-1119 volume 792, pp 191-198, 2022 https://doi.org/10.1007/978-981-16-4625-6_19	SCOPUS

5	Dr. D. Rukmani devi	A Dynamic Resource Allocation Protocol: Device to Device Communication For MANETs	IEEE Xplore	DOI: 10.1109/ICACTA54488.2022.9753041	SCOPUS
6	Dr. C. Bennila Thangammal Mrs. P. Poonkuzhali Mrs. R. Aarthi	An IoT Enabled Air Quality Monitoring Mobile App for Smart Cities	Lecture Notes in Networks and Systems	https://doi.org/10.1007/978-981-10ptimi6-6407-6_25	SCOPUS
7	Mr. S. Balasubramani	Slotted square microstrip patch antenna for 5G communication at 28 GHz with improved B.W and Gain	AIP Conference Proceedings	Vol.2405, No.1, 040017 (2022) https://doi.org/10.1063/5.0072473 ISSN:0094-243X	SCOPUS
8	Dr. S. G. Hymlin Rose	Enhanced Military Spying Sonar Radar System using Ultrasonic Sensor	IEEE Explore	DOI: https://doi.org/10.1109/ICCCI54379.2022.9740848 ISSN: 2329-7190	SCOPUS
9	Dr. S. G. Hymlin Rose	Color Image Restoration from Low Resolution Based on Multiscale Decomposition	IEEE Xplore	ISSN: 2157-0477 DOI: 10.1109/ICETET-SIP-2254415.2022.9791619	SCOPUS
10	M. Ayeesha Nasreen	Predicting Meloncholy Risk Among IT Professionals Using Modified Deep Learning Neural NetwoDLNN)	IEEE Xplore	DOI:10.1109/CSNT54456.2022.9787571 ISSN:2329-7182	SCOPUS
11	R. M. Senthil Priya	Design of Semicircular Microstrip Patch Antenna for Dual Band Applications	IEEE Xplore	ISBN: 978-1-6654-9634-6	SCOPUS
12	R. M. Senthil Priya	Design and Analysis of Circular Fractal Antenna for Wireless Applications	IEEE Xplore	ISBN: 978-1-6654-9634-6 DOI: 10.1109/ICCES54183.2022.9835845	SCOPUS
13	M. Ayeesha Nasreen	Energy Saving Mechanism using Extensive Game Theory Technique in Wireless Body Area Network (ES-EG)	Advances in Intelligent Systems and Computing	https://doi.org/10.1007/978-981-16-9573-5 (ISBN: 978-981-16-9573-5) Electronic ISSN :2194-5365, Print ISSN 2194-5357	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	M. Ayeesha Nasreen	IoT and AI Based Recognition and Classification of Covid 19 Persons in Public Place	Turkish Online Journal of Qualitative Inquiry	ISSN 1309-6591 (Online) Volume 12, Issue 8	Others