



Department of Electrical and Electronics Engineering

List of publications in SCI Journals during the recognized period

| Sl. No. | Authors | Title of the Paper | Name of the Journal | Volume and issue No. | Year | Impact Factor | Sl. No. in Annexure I/II |
|---------|---|---|---|------------------------------------|------|---------------|--------------------------|
| 1 | Kishore , N.P.Ananthamoorthy | Glaucoma classification based on intra-class and extra-class discriminative correlation and consensus ensemble classifier | Genomics | Volume 112, pp 3089–3096 | 2020 | 5.736 | 3976 Annexure I |
| 2 | Kishore , N.P.Ananthamoorthy | Improved adaptive neuro-fuzzy inference system based on modified glowworm swarm and differential evolution optimization algorithm for medical diagnosis | Neural Computing and Applications | Volume 33, pp 7649– 7660 | 2021 | 5.606 | 8346 Annexure I |
| 3. | N.LakshmiPriya, N.P.Ananthamoorthy | Using FPGA real time model for novel 33-level switched-capacitor multilevel inverter for PMSM drive | Microprocessors and Microsystems | Volume 76 | 2020 | 1.525 | 8034 Annexure I |
| 4 | B.Kishore, N.P.Ananthamoorthy | Analysis of hybrid statistical textural and intensity features to discriminate retinal abnormalities through classifiers | Journal of Engineering in Medicine | Volume 233(5) pp 506-514 | 2019 | 1.617 | 9274 Annexure I |
| 5 | P.K.Poonguzhali , N.P.Ananthamoorthy | Improved energy efficient WSN using ACO based HSA for optimal cluster head selection | Peer to Peer Networking and Applications | DOI 10.1007/s12083- 019-00814-3 | 2019 | 3.307 | 8859 Annexure I |
| 6 | B.Kishore , N.P.Ananthamoorthy Gayathridevi K , | Automatic Diagnosis and Classification of Glaucoma using Hybrid Features and k-Nearest Neighbor | Journal of Medical Imaging and Health Informatics | Volume 8 - pp 1568-1606 | 2018 | 0.659 | 6596 Annexure I |

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|----|---|--|--|---|------|-------|---|
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| 7 | P.K.Poonguzhali , N.P.Ananthamoorthy | Design of Mutated Harmony Search Algorithm for Data Dissemination in Wireless Sensor Network | Wireless Personal Communication | Volume 111, pp.729–751 | 2020 | 1.2 | 11385 Annexure II |
| 8 | G.Valarmathy K.Sekar & V.Balaji | An Automated Framework to Segment and Classify Gliomas Using Efficient Shuffled Complex Evolution Convolutional Neural Network | Journal of Medical Imaging and Health Informatics ISSN: 2156-7018 (Print): EISSN: 2156-7026 (Online) | Vol.11, Number 11, pp. 2765-2770 (6) | 2021 | 0.5 | 6596 Annexure I & 6805 Annexure II |
| 9 | T.Murugeswari Dr.S.Rathi | Priority and Interference Aware Multipath Routing Based Communications for Extreme Surveillance Systems | Computer Communications | Vol. 150, pp 537-546 ISSN 0140-3664, | 2020 | 3.167 | 2431 Annexure I & 2521 Annexure II |
| 10 | T.Murugeswari Dr.S.Rathi | QOS Distributed Routing Protocol for Mobile Ad-Hoc Wireless Networks Using Intelligent Packet Carrying Systems | Design Automation for Embedded Systems | Vol. 22 Number 3, pp 201-213 ISSN 0929-5585 | 2018 | 3.815 | 2807 Annexure I & 2908- Annexure II |
| 11 | A SureshBabu and B Anand | Modified dynamic current mode logic based LFSR for low power applications | Microprocessors and Microsystems | Vol. 42 | 2020 | 1.525 | 8034 Annexure I & 8310- Annexure II |
| 12 | Lavanya R and M. Karpagam | Enhancing the security of AES through small scale confusion operations for data communication | Microprocessors and Microsystems | Vol 75, | 2020 | 1.525 | 8034 Annexure I & 8310 Annexure - II |
| 13 | Bagyalakshmi K and M. Karpagam | Performance enhancement of efficient process based on Carry-Skip Adder for IoT applications | Microprocessors and Microsystems | Vol 76 | 2020 | 1.525 | 8034 Annexure – I & 8310- Annexure - II |

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|----|--|--|--|---|------|------------------------|-------|
| 14 | Dr.K.Sekar | An Automated Framework to Segment and Classify Gliomas Using Efficient Shuffled Complex Evolution Convolutional Neural Network | Vol. 11, Issue. 11,(2021), Vol. 11, pp. 2765–2770 | Journal of Medical Imaging and Health Informatics | 2021 | 0.69 | 0.659 |
| 15 | K Sekar, S Gopinath, K Sakthivel and S Lalitha | Design and Implementation of a Deep Convolutional Neural Networks Hardware Accelerator | Volume-1964 052008, pp. 1-7, doi:10.1088/1742-6596/1964/5/052008 | Journal of Physics: Conference Series, Advances in Computational Electrical Engineering | 2021 | 0.547 | 0.547 |
| 16 | V SenthilNayagam BalachandraPattanaik K Sekar and S Manikandan | Grid Interfaced Windfarm Using Dynamic Voltage Restorer for Power Compensation with PV Fed SEPIC Converter | Volume-1964 (2021) 052014 Page No. 1-7, doi:10.1088/1742-6596/1964/5/052014 | Journal of Physics: Conference Series, Advances in Computational Electrical Engineering | 2021 | 0.547 | 0.547 |
| 17 | BalachandraPattanaikK Sekar, S.Penielpauldoss and S Gobinath | Control Strategy For DSTATCOM Using Reinforcement Learning Algorithms in MG for Power Quality Improvement | Book chapter ISBN NO : 978-81-952585-4-3 Page No. 56-60 | Renewable Energy with IOT and Biomedical Applications Dipti Press OPC Pvt. Ltd., | 2021 | | -- |
| 18 | Dr.T.Vandarkuzhali | Subversive Power Cable Fault Credential via GSM and GPS Module for Green Energy | Vol.11, Issue 2, pp. 1394-1411 | Journal of Green Engineering | 2021 | 0.45 | 0.45 |
| 19 | Mr.N.Maheshkumar | Off Grid Power Generation Using Sepic Converter with P&O for PV System | Vol.25, Issue 5, pp. 3907-3913 | Annals of the Romanian Society of Cell Biology | 2021 | 0.90 | 0.90 |
| 20 | Dr.N.P.Ananthamoorthy | ANN Classification and Modified Otsu Labeling on Retinal Blood Vessels | Doi/10.2174/1574362414666191018104225 Volume 215, Issue No.4,Page No.512-520 | Journal of Current Signal Transduction Therapy | 2020 | Web of Science Indexed | 0.88 |

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|----|--|--|--------------------------------------|---|------|----------------|------|
| 21 | Dr.N.P.Ananthamoorthy | State-of-the-Art Techniques in Optic Cup and Disc Localization for Glaucoma Diagnosis: Research Results and Issues | Volume 48, Issue 1, Page No. 63 – 83 | Critical Reviews in Biomedical Engineering | 2020 | SCI indexed | 1.14 |
| 22 | Dr.N.P.Ananthamoorthy | Deep Learning Approach to Predict and Grade Glaucoma from Fundus Images through Constitutional Neural Networks | Book Chapter Chapter 5 | Book Title: Artificial Intelligence Trends for Data Analytics using Machine Learning and Deep Learning Approaches | 2020 | CRC Press | 2.21 |
| 23 | Dr.K.Sekar | An Automated Framework to Segment and Classify Gliomas using Efficient Segmentation and Classification | Vol.29, No. 10S, Page No. 7539-7547 | International Journal of Advance Science and Technology | 2020 | Scopus Indexed | 0.48 |
| 24 | Dr.M.Karpagam | Performance enhancement of efficient process based on Carry-Skip Adder for IoT applications | Volume 76 | Elsevier Microprocessors and Microsystems | 2020 | SCI indexed | 1.52 |
| 25 | Dr.M.Karpagam | Enhancing the security of AES through small scale confusion operations for data communication | Volume 76 | Elsevier Microprocessors and Microsystems | 2020 | SCI indexed | 1.52 |
| 26 | Dr.M.Karpagam | Gradient Ascent Optimization for Fault Detection in Electrical Power Systems based on Wavelet Transformation | Vol. 15, No. 3 , pp 294-302 | Current Signal Transduction Therapy | 2020 | SCI indexed | - |
| 27 | V.Kumarakrishnan, G.Vijayakumar, D.Boopathi, K.Jagatheesan, S.Saravanan, B.Anand | Optimized PSO Technique Based PID Controller for Load Frequency Control of Single Area Power System | Vol. 63 No. 5, pp.7979-7990 | Solid State Technology | 2020 | SCI indexed | |
| 28 | Dr.Vandarkuzhali.K.T | Detection of Foveo Region in Retinal Images using Optimization based modified FCM and ARMD disease Classification with SVM | Vol. 32, Issue. 1, pp.83 - 107 | International Journal of Biomedical Engineering and Technology | 2020 | SCI indexed | |

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| 29 | T.Murugeswari | Cooperative and Optimized Qos Enhanced Distributed Multipath Routing Protocol in Hybrid Wireless Networks | Volme 9 / Issue 5 pp. 1656-1664 | International Journal of Innovative Technology and Exploring Engineering | 2020 | Thomson reuters indexed | 1.20 |
| 30 | Muthuram G, R.Rajeshkanna & A.KhajaNajumudeen | Future Challenges in Energy Management System for Hybrid Renewable Energy System | Volume 8, Issue 6, pp.913-919 | International Journal of Recent Technology and Engineering | 2020 | Thomson reuters indexed | |
| 31 | M.P.Viswanathan, Muthuram G, R.Rajeshkanna & A.KhajaNajumudeen | Wind Energy Generation using Giga Turbines | Volume 83, page Number 18044-18053 | Test Engineering and Management | 2020 | Thomson reuters indexed | |
| 32 | T.Manjula | ECSORRMAN: Optimal Random Route Selection and Elliptic Curve Cryptography Based Security Schema for Mobile ADHOC Network | Volume 12, Issue 03- Special Issue, Page No.409-419 | Journal of Adv Research in Dynamical & Control Systems | 2020 | SCI indexed | 2.4 |
| 33 | T.Manjula | Secured And Adaptive Learning Based Routing Scheme (Salrs) For The Secured And Reliable Routing In Manet | Vol 7, Issue 11, Page No. 772-780 | Journal of Critical Reviews | 2020 | Thomson reuters indexed | 1.2 |
| 34 | D.Vijayanandh | Novel Architecture Design to Improve Security for Block Chain Technology in Crypto Economic Market using IoT | Vol.83, Page No. 3375-3381 | Test Engineering Management | 2020 | Scopus Indexed | - |
| 35 | M.Arivalagan, M.Lavanya, D.Vijayanandh, A.Manonmani | Design and Implementation of Intelligence System for Potholes Detection Using LABVIEW | Vol. 24, Issue 03,pp. : 3695-3700 | International Journal of Psychosocial Rehabilitation | 2020 | Scopus Indexed | - |
| 36 | D.Vijayanandh | Improving Security on Blockchain and its Integration with IoT | BOOK CHAPTER Chapter 06, ISBN No. 978-0-367-43137-2 | Book Title: Blockchain Technologies, Fundamentals and Applications | 2020 | CRC Press | - |

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| 37 | Dr.N.P.Ananthamoorthy | Robust retinal blood vessel segmentation using convolutional neural network and support vector machine | Doi/10.1007/s12652-019-01559-w Volume 1, Issue No.5, Page No.125-135 | Journal of Ambient Intelligence and Humanized Computing | 2019 | SCI indexed | 3.42 |
| 38 | Dr.N.P.Ananthamoorthy | Analysis of hybrid statistical textural and intensity features to discriminate retinal abnormalities through classifiers | Volume 233 / Issue 5 PP.506-514 | Journal of Engineering in Medicine | 2019 | SCI indexed | 1.144 |
| 39 | T.Murugeswari | Priority and interference aware multipath routing based communications for extreme surveillance systems | Doi/10.1016/2019.11.050 Volume 150, Issue No.1,Page No.537-546 | Journal of Computer Communications | 2019 | Thomson reuters indexed | 2.23 |
| 40 | D.Vijayanandh | Less Human Intervention (Automated) waste management system using IoT for Next Gen Urbanization | BOOK CHAPTER Chapter 20, ISSN No. 23266139 | Book Title: Handbook of Research on Implementation and Deployment of IoT Projects in Smart Cities, IGI GLOBAL | 2019 | CRC Press | - |
| 41 | K.Saravanakumar | Microbial fuel cell-based self-powered biosensor for environment monitoring in IoT cloud framework | Volume 31 / Issue 15 pp.1162-1175 | Journal of Concurrency and Computation Practice and Experience | 2019 | SCI indexed | 0.312 |
| 42 | T.Manjula | A secured Multiplicative Diffie Hellman Key exchange Routing approach for Mobile Adhoc Networks | Doi/10.1007/s12652-019-01612-8 Volume 2, Issue No.4, Page No.410-420 | Journal of Ambient Intelligence and Humanized Computing. | 2019 | SCI indexed | 3.42 |
| 43 | M.P.Viswanathan | An On-Grid Solar Power Harvesting System with a DC-DC converter to minimize the variety Irradiance voltage for Multilevel Inverter | Volume 39 / Issue 10 pp.121-130 | Tierarztliche Praxis | 2019 | SCI indexed | 0.415 |
| 44 | Dr.M.Karpagam | Optimized Neural Network Relaying for Efficient Power Transformer Protection | Vol. 19, Edition 4 | Journal of Electrical Engineering | 2019 | SCI indexed | |

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| 45 | Dr.S.Saravanasundaram | Game Theory Based Survey on Energy-Efficient Routing Protocols in Wireless Sensor Networks | Volume 16, Issue 9, pp.195-200 | Journal of Xi'an Shiyou University, Natural Science Edition | 2019 | | |
| 46 | Dr.N.P.Ananthamoorthy | Automatic Diagnosis and Classification of Glaucoma Using Hybrid Features and k-Nearest Neighbor | Vol.8,pp. 1568-1606 | Journal of Medical Imaging and Health Informatics | 2018 | SCI indexed | 0.46 |
| 47 | Dr.N.P.Ananthamoorthy | Hardware Implementation and Analysis of Different Sources Fed Hybrid Cascaded H-Bridge Fifteen Level Inverter | Vol.9, Issue 3, pp 1012-1020 | Journal of Electrical Engineering | 2018 | Thomson reuters indexed | 0.35 |
| 48 | Dr.N.P.Ananthamoorthy | A SITO DC-DC Converter Hybrid Cascaded Multilevel Inverter Topology for Stand-Alone PV Applications | Vol.3.,Issue. 4, pp 241-262 | Journal of Electrical Engineering | 2018 | Thomson Reuters Indexed | 0.35 |
| 49 | Dr.K.Sekar | Performance Analysis of Autonomous Hybrid Renewable Power Generation for Environmental Protection with Effective Energy Management Controller | Vol.61, Issue.3, pp 44-51 | Water and Energy International | 2018 | Thomson Reuters Indexed | 0.05 |
| 50 | Dr.S.SaravanaSundaram | Book chapter Design and Analysis of Cascaded H-bridge Multilevel Inverter with PWM techniques and controllers | Lambert Academic Publishing is a brand of Omni Scriptum S.R.L. | Book Title: Cascaded H-bridge Inverter Control for Grid Connected DC Power Source | 2018 | | |
| 51 | Murugeswari.T | QOS distributed routing protocol for mobile ad-hoc wireless networks using intelligent packet carrying systems | Vol.22, pp 201-213 | Springer | 2018 | 1.58 | 1.58 |
| 52 | Dr.K.Mathan | A Novel Gini index decision tree data mining method with neural network classifiers for prediction of heart disease | Vol.22, pp 225-242 | Springer | 2018 | 1.58 | 1.58 |



