



List of All ECSoE Publications
(Journals / Conferences / Books / Book Chapters / Patents /
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Journals

2025

1. Bernadette D Johnson, **Balan Ramesh**, Adam G Jones, "The genome of the MZM-0403 strain of the African turquoise killifish", *Nothobranchius furzeri*, *G3 Genes | Genomes | Genetics*, 2025;, jkaf075, <https://doi.org/10.1093/g3journal/jkaf075>
2. Rathore, Nitesh Kumar, Ankur Beohar, and **Pooran Singh**. "Design of compact and high-performance SRAM cell in QCA technology for next-generation memories." *Engineering Research Express* 7.1 (2025): 015366.
3. Kumar Barik, P., Kisan Dond, A., Hasan, A. and **Kumar, R.** (2025), "Hybrid CBSQI-WENO Schemes for Convection-Diffusion Problems", *Int J Numer Meth Fluids*. <https://doi.org/10.1002/flid.5380>
4. **Bukya, S.**, Gupta, M.K. & Kumar, S.B.R. Speech Perception in High-Frequency Sloping Hearing Loss Under Different Aided Conditions: Single Case Study. *Indian J Otolaryngol Head Neck Surg* 77, 1301–1306 (2025). <https://doi.org/10.1007/s12070-025-05325-7>
5. Raghuram Kadali, Sriram Mangu, **Subbarao, SSV.**, Jen-Jia Lin, (2025) "Evaluation of Transit-Oriented Development based on 9D's approach in developing countries context", *Transport Policy*, <https://doi.org/10.1016/j.tranpol.2025.01.010>
6. A. Roy, A. Laha, A. Biswas, **B. P. Pal, S. Ghosh** and A. Miranowicz, "Dynamically encircled higher-order exceptional points in an optical fiber" *Physica Scripta (IOP)* 100 045529, 2025
7. S. Dey, N. R. Das, and **S. Ghosh**, "Topological guidance in a quasi-periodically modulated coupled multicore optical fiber," *Journal of Lightwave Technology*, 10.1109/JLT.2025.3539994 (2025)
8. S. Roy, A. Biswas, **B. P. Pal and S. Ghosh**, "Exclusive propagation characteristics of topological optical fibers" *Journal of Optics (IOP)*, 27 035602 (2025)
9. P. Biswas, Sonam, **B. P. Pal, and S. Ghosh**, "Topological supermodes in a specialty periodic tri-lattice optical waveguide", *Optics Communications*, 577, 131456 (2025)
10. **Sandeepan Roy**, "Optimizing a decomposed high-speed rail multi-station shortest sequence problem, *Expert Systems with Applications*, 2025, 127543, ISSN 0957-4174, <https://doi.org/10.1016/j.eswa.2025.127543>
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12. **Singh, S. H.,** Kanakamedala, V. C., & **Gangavarapu, S. R. T.** (2025). From clicks to insights: analysing online customer reviews for handicraft products. *Technology Analysis & Strategic Management*, 1–17. <https://doi.org/10.1080/09537325.2025.2450662>
13. Nagaraju Napa, **Manish Kumar Agrawal, Bhaskar Tamma**, "Impact of active and passive thermal management strategies on the ageing of lithium-ion battery module under constant and monthly average ambient temperature", *Journal of Energy Storage*, Volume 113, 2025, 115642, ISSN 2352-152X, <https://doi.org/10.1016/j.est.2025.115642>.
14. Pujyulianto, E., Pahlepi, P., **Khan, M.A.** et al. "Comprehensive Root Cause Failure Analysis and Numerical Evaluation of Fractured Piston Head". *J Fail. Anal. and Preven.* (2025). <https://doi.org/10.1007/s11668-025-02121-x> I.F. 0.9.
15. Alhashmi, H., **Khan, M. A.,** Budarapu, P. R., & Kumar, S. (2025). "Stress transfer in three-phase composites: Modeling of radially graded interphases with proof of concept from 3D printed composite testing". *Mechanics of Advanced Materials and Structures*, 1–18. <https://doi.org/10.1080/15376494.2024.2443581> I.F. 3.6.
16. Singaram, K.K., **Khan, M.A.* & Talakokula, V.** "Review on compressive strength and durability of fly-ash-based geopolymers using characterization techniques". *Arch. Civ. Mech. Eng.* 25, 73 (2025). <https://doi.org/10.1007/s43452-025-01116-7> I.F. 4.4.
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18. Shanti Kumar and **Sreedhar Madichetty** "Route Map Towards Road Freight Electrification: Developing a Dual-Energy Electric Vehicle" Accepted for publication in *International Energy Journal* (Feb 2025).
19. **S. K. N B, S. Madichetty, C. Pannela,** P. Kumar and M. Shaik, "An Innovative Islanding Detection Algorithm for Grid-Tied Inverter Utilizing In-Circuit Magnetic Characteristics of Inductors in LCL

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 26. Rajesh Dwivedi, Aruna Tiwari, **Neha Bharill**, Milind Ratnaparkhe, Saurabh Kumar Singh, Abhishek Tripathi, "A novel chemical property-based, alignment-free scalable feature extraction method for genomic data clustering", Computers and Electrical Engineering, Volume 123, Part C, 2025, 110175, ISSN 0045-7906, <https://doi.org/10.1016/j.compeleceng.2025.110175>
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28. Rathore, Nitesh Kumar, and **Pooran Singh**. "Design of SRAM cell using an optimized D-latch in quantum-dot cellular automata (QCA) technology." Journal of Applied Physics 136, no. 13 (2024).
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38. Vaishnavi Sajeev, Mangababu Akkanaboina, Nityananda Acharyya, Indu Krishna KN, **Dibakar Roy Chowdhury**, "Deep sub-wavelength dipole cavities for terahertz thin film sensing", *Optics Communications*, Volume 558, 2024, 130376, ISSN 0030-4018 <https://doi.org/10.1016/j.optcom.2024.130376>
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International/National Conferences/Workshops

2025

1. Rahul S., Samuel Peter, **Subbarao, SSV** (2025) "Understanding driver distractions in two-wheelers using eye tracker", ASCE International Conference on Challenges and Innovations for Sustainable Smart Cities (CISSC 2025), 7th - 9th Feb 2025, Chandigarh, India
2. **Ravi Kishore**, "Perfectly Secure Message Transmission Tolerating Omission Faults -- Possibility Feasibility, and Optimality". In Proceedings of the 26th International Conference on Distributed Computing and Networking (ICDCN '25). Association for Computing Machinery, New York, NY, USA, 191-200. <https://doi.org/10.1145/3700838.3700873>
3. **Patil, S. R., & Seth, D.** (2025). Decoding Elbow Movement Intentions from EMG Signals for Exosuit/Exoskeleton Control. In International Conference on Human-Computer Interaction (pp. 372-386). Springer, Cham. https://dl.acm.org/doi/10.1007/978-3-031-76803-3_22
4. Pathan M, Suprabath, and **Sreedhar Madichetty** - "AI-Powered Cybersecurity Surveillance for Autonomous Vehicle CAN Bus System" Accepted for publication in International Conference on Green Sustainable Solutions (ICGSS), Dev Bhoomi Uttarakhand University.
5. **Siva Chinmai Varma Bhupathiraju, Sridhara Sai Krishna, Yashwanth Komuravelly, Ramakant Yadav** "Low-Power and Superior Performance Design of Ternary Logic Cells Using CNFET and MOSFET Devices for VLSI Applications," 38th International Conference on VLSI Design and 23rd International Conference on Embedded Systems (VLSID), 2025.
6. Billel Smaani, Samir Labiod, Mohamed Salah Benlatreche, Boudjemaa Mehimmedetsi, **Ramakant Yadav**, Husien Salama, "International Journal of High-speed Electronics and Systems," Volume 33, 2024, (DOI: <https://doi.org/10.1142/S0129156424400615>)
7. Mohan Krishna and **Sreedhar Madichetty** - "Enhancing EV Charging Infrastructure with Vanadium Redox Flow Batteries: A Comprehensive Study of Design and Implementation" Accepted for publication in 2025 IEEE Energy Conversion Congress & Exposition Asia (ECCE-Asia), organized by IEEE PELS Bangalore.
8. Chandrakala, Gowthami, and **Sreedhar Madichetty** - "Realtime Implementation of Multiple Fault Detection Methodology for Solar PV Farms using Hybrid AMH and Deep Learning Techniques" Accepted for publication in The 13th International Electrical Engineering Congress (iEECON 2025), organized by IEEE PELS and the Department of Electrical and Computer Engineering at King Mongkut's University, Thailand.
9. Ushaswini, Mohan Krishna, and **Sreedhar Madichetty** - "Comparative Analysis of Resonant Converters for EV Charging Applications" Accepted for publication in The 13th International Electrical Engineering Congress (iEECON 2025), organized by IEEE PELS and the Department of Electrical and Computer Engineering at King Mongkut's University, Thailand.
10. G. Pannela, **S. Madichetty**, S. k. Nandavaram Banda and S. Mishra, "Design and Implementation of SPV Based Water Pumping System Using AHM for Agriculture Applications - A Remote Monitor and Control Approach," 2024 2nd International Conference on Cyber Physical Systems, Power Electronics and Electric Vehicles (ICPEEV), Hyderabad, India, 2024, pp. 1-6, doi: 10.1109/ICPEEV63032.2024.10931944.
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