



List of All MEC Publications
(Journals / Conferences / Book Chapters / Patents)

Journals

2020

1. Preeti Jha, Aruna Tiwari, **Neha Bharill**, Milind Ratnaparkhe, Mukkamalla Mounika and Neha Nagendra, "A Novel Scalable Kernelized Fuzzy Clustering Algorithm Based on In-Memory Computation for Handling Big Data", IEEE Transactions on Emerging Topics in Computational Intelligence;(2020) (Accepted).
2. **K. N. Deepthi**, Srubabati Goswami, Vishnudath K. N., and Tanmay Kumar Poddar, "Implications of the dark large mixing angle solution and a fourth sterile neutrino for neutrinoless double beta decay", Phys. Rev. D 102, 015020, (July 2020); doi: 10.1103/PhysRevD.102.015020
3. Sabyasachi Banerjee, **Bishnu Pal**, and **Dibakar Roy Chowdhury**, "Resonance Phenomena in Electromagnetic Metamaterials for the Terahertz Metamaterials: A Review", Journal of ElectroMagnetic Waves and Applications, 1-24, (2020); doi.org/10.1080/09205071.2020.1713227
4. **Sunny Rai** and Shampa Chakraverty. 2020. A Survey on Computational Metaphor Processing. ACM Comput. Surv. 53, 2, Article 24 (March 2020), 37 pages. DOI: <https://doi.org/10.1145/3373265>
5. Jyoti Gajrani, Umang Agarwal, Vijay Laxmi, **Bruhadeshwar Bezawada**, Manoj Singh Gaur, Meenakshi Tripathi, Akka Zemmari: EspyDroid+: Precise reflection analysis of android apps. Computers and Security 90: 101688 (2020)
6. Rakesh Sarkar, K Monica Devi, Dipa Ghindani, Shriganesh Prabhu, **Dibakar Roy Chowdhury**, and Gagan Kumar, "Polarization Independent double band electromagnetically Induced Transparency effect in terahertz metamaterials", Journal of Optics, 22, 035105 (2020)
7. **N. Chamakuri** and P. Kügler. "A coupled monodomain solver with optimal memory usage for the simulation of cardiac wave propagation", Applied Mathematics and Computation, 378:125212, (2020).
8. V. Dhanya Varma, **Nagaiah Chamakuri**, Suresh Kumar Nadupuri, "Discontinuous Galerkin solution of the convection-diffusion-reaction equations in fluidized beds", Applied Numerical Mathematics, Volume 153, Pages 188-201, (2020)
9. T. Jagannadha Swamy, **G. Ramamurthy** and P. Nayak, "Optimal, Secure Cluster Head Placement Through Source Coding Techniques in Wireless Sensor Networks," in *IEEE Communications Letters*, vol. 24, no. 2, pp. 443-446, (Feb. 2020), doi: 10.1109/LCOMM.2019.2953850.
10. **G. Rama Murthy**, Rishi Pratap Singh and C. Naveen,"Wide Band Time Optimal Spectrum Sensing," International Journal of Internet Technology and Secured Transactions, Vol.10, No. 4, (2020)
11. **J Mahipal**, " A Highly Stable Explicit Scheme for a Fourth Order Nonlinear Diffusion Filter", Accepted for publication in International Journal of Modeling, Simulation, and Scientific Computing. (2020)
12. **Murtaza Bohra**, **Arun Showry**, Panagiotis Grammatikopoulos, and Vidyadhar Singh, Versatile Gold-Polymer Nanointerfaces Probed by GISAXS, Material Today Chemistry (in press)(2020).
13. **Murtaza Bohra**, **TM Pavan**, Vincent Fournée, RK Mandal, Growth, structure and thermal stability of quasicrystalline Al-Pd-Mn-Ga thin films Applied Surface Science, 505, 144494(2020).
14. **Jetta, M., Chirala, S.** "On Multi-Quadric Based RBF-FD Method for Second-Order Diffusion Filters". SN COMPUT. SCI. 1, 39 (2020). <https://doi.org/10.1007/s42979-019-0046-4>
15. **Prakash, J.** "Hydrodynamic mobility of a porous spherical particle with variable permeability in a spherical cavity". Microsyst Technol (2020). <https://doi.org/10.1007/s00542-020-04801-0>
16. Subhjit Karmakar, Deepak Kumar, Ravendra Varshney, and **Dibakar Roy Chowdhury** ,"Lattice Induced Plasmon Hybridization in Metamaterials", , Accepted in Optics Letters (2020)
17. Deepak Kumar, Surya Pranav Ambatipudi, Sabyasachi Banerjee, Ranjan Kumar, and **Dibakar Roy Chowdhury**,"Multifold coupling Enabled High Quality factor Toroidal resonances in Terahertz Metasurfaces" , Journal of Applied Physics, 127, 193103 (2020)
18. Subhjit Karmakar, Deepak Kumar, Ravendra Varshney, and **Dibakar Roy Chowdhury** ,"Strong terahertz Matter Interaction induced Ultrasensitive Sensing in Fano Cavity based Metamaterials" , Accepted in Journal of Physics D: Applied Physics (2020)

19. **Aditya Abburi**, **Murtuza Ali**, **Prateek Moriya**, "Synthesis of mesoporous silica nanoparticles from waste hexafluorosilicic acid of fertilizer industry", *Journal of Materials Research and Technology* (May 2020).
20. **S M Chetty**, S Mishra, and M Basu, "New Trends in Electric Motors and Selection for Electric Vehicle Propulsion Systems", *IET Electrical Systems in Transportation*, 2020 – IET (In Press)
21. **S M Chetty**, M Rayguru, S Mishra, "Battery Super-Capacitor Hybrid System for Electrical Vehicle Transportation's Systems-An Energy Integrated Approach", *IET Energy Systems Integration*, 2020 – IET (In press)
22. **S M Chetty**, L V Suresh, "The Black-Start Capability Improvement of VSC based HVDC Transmission System using Fuzzy adaptive PI controller", *International Journal of Ambient Energy (TAEN)-2020- Taylor and Francis* (In Press)
23. **M.A. Khan**, "Mix suitable for concrete 3D printing: A review." *Materials Today: Proceedings*, 2020, ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2020.03.825> **CiteScore 1.09**

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25. S Jagan Mohan Rao, Rakesh Sarkar, Gagan Kumar, and **Dibakar Roy Chowdhury**, "Gradual Cross Polarization Conversion of Transmitted Waves in Near Field Coupled Planar Terahertz Metamaterials", *OSA Continuum*, 2, 603 (2019)
26. Subhajit Karmakar, Ravi Varshney, and **Dibakar Roy Chowdhury**, "Theoretical Investigation of Active Modulation and Enhancement of Fano Resonance in THz Metamaterials", *OSA Continuum*, 2, 531 (2019)
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31. Venkata Koteswara Rao P, Hari Krishna P and **C Hari Prasad**, "Experimental and Numerical Investigation of Pile Group with And Without Building Frame Subjected To Axial Load" *Indian Geotechnical Journal* (2019) DOI: <https://doi.org/10.1007/s40098-019-00383-5> [Scopus and ESCI Indexed]
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35. **Rai Sunny**, Jain Amita and Pandey Priyank, "Inclusion of Wikipedia, a language specific knowledge resource to generate and update a synset in WordNet", *International Journal of Technology, Policy and Management*, Interscience, Vol. 19, No. 4, (2019); DOI: [10.1504/IJTPM.2019.104062](https://doi.org/10.1504/IJTPM.2019.104062)
36. **Ch. Nagaiah**, Parallel and space-time adaptivity for the numerical simulation of cardiac action potentials, *Applied Mathematics and Computation*, Vol 353, 406-417, (2019).

37. B. Naresh Kumar Reddy, **Cheruku Ramalingaswamy**, R. Nagulapalli, and Dharavath Ramesh, "A Novel 8T SRAM with Improved Cell Density", *Analog Integrated Circuits and Signal Processing*, 98(2), 355-367, (2019) (Springer).
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5. S. Thapa, D.K. Jain, P. Singh, **N. Bharill**, A. Gupta, M. Prasad, "Data-Driven Approach based on Feature Selection Technique for Early Diagnosis of Alzheimer Disease", Proc. of 2020 IEEE World Congress on Computational Intelligence, IEEE, Glasgow Scotland, 19-24 July, (2020)
6. J. H. Go, T. Jan, M. Mohanty, **O. P. Patel**, D. Puthal and M. Prasad, "Visualization Approach for Malware Classification with ResNeXt", IEEE World Congress on Computational Intelligence (IEEE CEC 2020), Scottish Event Campus Ltd, Glasgow, United Kingdom, July 2020 (Rank B)
7. Alexander Rumyantsev and **G. Rama Murthy**, "Steady State and Transient Analysis of a Single Channel Cognitive Radio Model with Impatience and Balking, " ICAAPSP 2020, Springer Publishers
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11. **Paromita Bose**, "Caste Politics in the Cultural Realm: Drawing and Reading Discrimination". International Symposium, "Research in the Arts, The Arts in Research" Cultural Literacy in Europe (CLE) organised and hosted by University of Lodz, Poland over Zoom (May 2020).

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