



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

Journals

2020

1. Sanjukta Das, "Controllability of a Neutral Stochastic Evolution Equation", Journal of Mathematics and Statistical Science (ISSN 2411-2518, USA), <http://www.ss-pub.org/>, Paper ID: No. JMSS2020090101; (2020) (Accepted)
2. Sanjukta Das, "Controllability of a conformable fractional differential system with nonlocal condition and deviated argument", Nonlinear Dynamics and Systems Theory, InforMath publishing group; (2020) (Accepted)
3. Sanjukta Das, "Controllability of a class of conformable fractional differential system", Journal of Control and Decision, Taylor Francis Group; (2020); <https://doi.org/10.1080/23307706.2020.1857314>
4. R. Basu, "A new formula for investigating delay integro-differential equations using differential transform method involving quotient of two functions", Rocky Mountain Journal of Mathematics; (2020)(Accepted).
5. P. Biswas, S. Ghosh, and **B. P. PAL**, "Spectral response of a short optical pulse in a dispersion oscillating specialty fiber with higher order nonlinearities", Asian J Phys., Special issue on Plasma Physics, Optics and Photonics, Energy Studies and Education Management dedicated to Prof. M. S. Sodha, (2020) (In press).
6. D. Roy Chowdhury, P. Pal, and **B. P. PAL**, "Thin Film Sensing with Terahertz Metamaterials", Asian J Phys. Special issue on Optical Information Processing, Holography, Fourier Optics dedicated to Prof. T. S. Yu, (2020) (In press).
7. 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).
8. **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
9. 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
10. **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>
11. 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)
12. 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)
13. **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).
14. 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)
15. 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.
16. **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)
17. **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)

18. **Murtaza Bohra**, **Arun Showry**, Panagiotis Grammatikopoulos, and Vidyadhar Singh, Versatile Gold-Polymer Nanointerfaces Probed by GISAXS, *Material Today Chemistry* (in press)(2020).
19. **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).
20. **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>
21. **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>
22. Subhajit Karmakar, Deepak Kumar, Ravendra Varshney, and **Dibakar Roy Chowdhury** , "Lattice Induced Plasmon Hybridization in Metamaterials" , , Accepted in *Optics Letters* (2020)
23. 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)
24. Subhajit 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)
25. **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).
26. **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)
27. **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)
28. **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)
29. **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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30. B. Bakshi (nee Kumari), A. Barh, S. Ghosh, R. K. Varshney, and **B. P. Pal** (Invited paper), Guided wave photonics for light sources, sensors and passive components at mid-IR, *Asian J. Phys.* vol. 28(10-12), Special issue, pp. 877-889 (2019).
31. 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)
32. 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)
33. **G. R. Gopinath** and P. D. Shyama, "Sensorless control of PMSM using an adaptively tuned SCKF," in *The Journal of Engineering*, vol. 2019, no. 17, pp. 4304-4308, 6 2019.
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37. 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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40. Karmakar, S., Banerjee, S., Kumar, D., Kamble, G., Varshney, R.K. and **Roy Chowdhury, D.**, Deep-Subwavelength Coupling-Induced Fano Resonances in Symmetric Terahertz Metamaterials. *Phys. Status Solidi RRL*, 13: 1900310, (2019) doi:[10.1002/pssr.201900310](https://doi.org/10.1002/pssr.201900310)
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42. **Ch. Nagaiah**, Parallel and space-time adaptivity for the numerical simulation of cardiac action potentials, *Applied Mathematics and Computation*, Vol 353, 406-417, (2019).
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48. **Murtaza Bohra**, **Nishit Agrawal**, and Vidyadhar Singh, "A Short Review on Verwey Transition in Nanostructured Fe₃O₄ Materials", *Journal of Nanomaterials*, Volume 2019, Article ID 8457383, 18 (2019).
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53. **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)
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