

List of All Publications

**(Journals / International Conferences / Book Chapters /
Patents)**

Journals

2019

1. N. Raghu Kisore and K.Shiva Kumar, "FFRR: A software diversity technique for defending against buffer overflow attacks," International Journal of Information and Computer Security, Inderscience Publishers, Inderscience Publishers, (In Pre-Print).
2. 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. [Accepted for publication]. DOI: <https://doi.org/10.1007/s40098-019-00383-5> [Scopus and ESCI Indexed]
3. **Jai Prakash**, G. P. Raja Sekhar, "Effective viscosity of a concentrated suspension of composite porous spherical particles", Meccanica, Vol. 54 (6), 799-813, 2019.
4. **S. Amanaganti and J. Dontabhaktuni, 'High RI dielectric rings in liquid crystals as tunable metasurfaces', Metamaterials XII 11025, 110250J (2019).
5. Deep Sub-wavelength Coupling Induced Fano Resonances in Symmetric Terahertz Metamaterials, Subhajit Karmakar, Sabyasachi Banerjee, Deepak Kumar, Girish Kamble, Ravendra Varshney, and **Dibakar Roy Chowdhury**, Physica Status Solidi: Rapid Research Letters, accepted (2019)
6. **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, 2019 — In Press
7. **Ch. Nagaiah**, Parallel and space-time adaptivity for the numerical simulation of cardiac action potentials, Applied Mathematics and Computation, Vol 353, 406-417, 2019.
8. 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).
9. Anushree, Damoder Reddy Edla, Diwakar and **Ramalingaswamy Cheruku**, "Survey on Brain Computer Interface: An Emerging Computational Intelligence Paragigm", ACM Computing Survey, 2019, 52(1): 20:1-20:32 (2019)
10. **Ramalingaswamy Cheruku**, **Charan**, **Gopi Krishna** and T. Veeraiah etc. "Survey on Rule Extraction Algorithms: A Case Study on Type-2 Diabetes Data", International Journal of Innovative Technology and Exploring Engineering, 2019 (Accepted).
11. **Krishna Swaroop** and **Ramalingaswamy Cheruku**, "Cascading of RBFN, PNN and SVM for Improved Type-2 Diabetes Prediction Accuracy", Australian Journal of Wireless Technologies, Mobility and Security, 2019 (Accepted).
12. **Murtaza Bohra**, **DR Chowdhury**, V Singh and JF Bobo, "Anomalous electric transport across Verwey transition in nanocrystalline Fe₃O₄ thin films", Journal of Applied Physics, 125, 013901(2019).
13. **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).
14. V. Singh, A. Annadi, B.Bhoi, R. Madugundo, M. Muthu and **Murtaza Bohra**, "Synthesis, Properties, and Applications of Multifunctional Magnetic Nanostructures 2018", Volume 2019, Article ID 1847262, 3 (2019).
15. Babita Kumari, R. K. Varshney and **B. P. PAL**, "Design of a silicon-on-calcium-fluoride-based ultra-compact and highly efficient polarization splitter for the mid-IR", Opt. Engg. (In press, 2019).

16. Babita Kumari, R. K. Varshney and **B. P. PAL**, "Design of a promising silicon slot waveguide-based ultra-short low loss efficient polarization rotator for the mid-IR", *Optik - International J. for Light and Electro Optics*, vol. 180, pp. 71-83 (2019).
17. Babita Kumari, R. K. Varshney and **B. P. PAL**, "Design of a silicon on calcium fluoride-based compact and efficient polarization rotator for mid-IR", *OSA Continuum* vol. 1, No. 4, pp. 1158-1171 (2019).
18. B. Siva Raju, A. Sowmya and **G. Rama Murthy** "Emotion Detection using visual information with Deep Auto- Encoders," *IEEE, 5th International Conference for Convergence in Technology*, 2019 (Scopus Indexed).
19. K. I. Basha and **G. Rama Murthy**, "Emotion Classification: Novel Deep Learning Architectures," *Proceedings of IEEE International Conference on Advanced Computing & Communication Systems (ICACCS)*, 15th-16th March 2019
20. **G. Rama Murthy**, M. Dileep and R. Anil, "Novel Ceiling Neuron Model and its Applications," Accepted for *IEEE International Joint Conference on Neural Networks (IJCNN)*, 2019, July 2019, Budapest, Hungary....A rated conference in Neural Networks
21. Ganesh Yaparla, Sri Teja Allaparthi, Sai Krishna Munnangi and **Garimella Rama Murthy**, "A Novel framework for Fine Grained Action Recognition in Soccer,": Accepted for International Work conference on Artificial Neural Networks (IWANN 2019), June 2019.
22. Vikas Kumar, Arun K Pujari, **Venkateswara Rao Kagita** and Vineet Padmanabhan, Group Preserving Label Embedding for Multi-label Classification, *Pattern Recognition*, 90, pages 23–34, 2019
23. **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)
24. 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)
25. Diwakar Tripathi, Damoder Reddy Edla, **Ramalingaswamy Cheruku** and Venkatanaresbhabu Kuppili, "A novel hybrid credit scoring model based on ensemble feature selection and multilayer ensemble classification", *Journal of Computational Intelligence (Willey)*, 2019, DOI: 10.1111/coin.12200
26. **Jagan M. Pabidri** and Keshav Kashichenula; Novel Kinematic Boundary Conditions for Deformation of Granular Materials; *Journal of Coupled Systems and Multiscale Dynamics*. Status: Accepted (2019).
27. V.S. Kathavate, B. Praveen Kumar, I. Singh, **Palash Roy Choudhury**, K. Eswar Prasad, "*Nanoindentation Response of PZT and NKN-NT Piezoceramics*" (Accepted), (2019).
28. Koteswar Rao, V., Padavala, H., **Hari Prasad, C.** Experimental investigation of axially loaded group of piles with and without building frame-A parametric study. *Innovative infrastructure solutions*, Springer (accepted), (2019).

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29. **Ch. Nagaiah**, W. Neubert, S. Gilbert, J. Vierheller, G. Warnecke, M. Falcke, "Multiscale modeling and numerical simulation of calcium cycling in cardiac myocytes", *SIAM Interdisciplinary Journal, Multiscale Modelling and Simulation*, 16(3), 1115–1145, 2018.
30. **Kalapatapu, P.** Shalini Chaudari, Nithin Kumar Singh and Aruna Malapati, "Content-based Clustering for Song Similarity using Self Organizing Maps", *Elsevier Procedia Computer Science*, 113, 115-123, 2018.

31. K Monika Devi, **Dibakar Roy Chowdhury**, Gagan Kumar and Amarendra Sarma, "Dual-band electromagnetically induced transparency effect in a concentrically coupled asymmetric terahertz metamaterial", *Journal of Applied Physics*, 124, 063106 (2018).
32. K Monika Devi, Maidul Islam, **Dibakar Roy Chowdhury**, Amarendra Kumar Sarma and Gagan Kumar, "Plasmon Induced Transparency in graphene based terahertz metamaterials", *European Physics Letters*, 120, 27005 (2018).
33. **Jayasri Dontabhaktuni**, Miha Ravnik and Slobodan Zumer, "Quasi-Crystalline colloidal tilings in thin nematic films", *Crystals - Special Issue "Structure and Properties of Quasicrystalline Materials"*, 8(7), 275 (2018).
34. Sadguna, N. and **Subbarao, SSV.**, "Adaptive Signal Control for Non-lane based Vehicle Movements", *International Journal of Traffic and Transport Engineering*, vol. 8: 2, pp. 249-260, (2018).
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36. **K. C. Bulusu** et al., "Quasi-optimal Tone Reservation PAPR Reduction Algorithm for Next Generation Broadcasting Systems: A Performance/complexity/latency Trade-off with Testbed Implementation", *IEEE Transactions on Broadcasting*, vol. 64, no. 4, pp. 883-899, (2018).
37. **G. R. Gopinath** and S. P. Das, "Sensorless control of Permanent Magnet Synchronous Motor using an adaptively tuned Square-root Cubature Kalman Filter", *IET Journal of Engineering*, (2018).
38. **Subbarao Boddu**, "Analysis of Design Parameters in Flexible Reuse Deployments of OFDMA Downlink Cellular Networks", *Asian Journal of Convergence in Technology*, Vol. 4, issue 1, pp. 1-6, ISSN NO: 2350-1146 I.F-5.11, (2018).
39. **Subbarao Boddu** and Jagadeesh Babu Kamili, "Design of a compact elliptical slot printed UWB antenna with band-notched characteristics", *Taylor and Francis International Journal of Electronics*, (2018).
40. **C. Gurnani**, S. L. Hawken, A. L. Hector, R. Huang, M. Jura, W. Levason, J. Perkins, G.Reid, and G. Stenning, "Tin (iv) chalcogenoether complexes as single source precursors for the chemical vapour deposition of SnE₂ and SnE (E= S, Se) thin films", *Dalton Transaction.*, Vol. 47, pp.2628-2637, (2018).
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42. B. Siva Raju, A. Sowmya and **G. Rama Murthy**, "Facial Emotion Detection using Deep Autoencoders," *Proceedings of International Conference on Recent Innovations in Electrical, Electronics and Communications Engineering (ICRIEECE)*, July 2018.
43. **G. Rama Murthy**, M.Nazeer and Padmalaya Nayak, "Energy Efficient Design of Mobile Wireless Sensor Networks: Constrained Clustering" To appear in the *Proceedings of International Conference on Wireless Sensor Networks, Ubiquitous Computing and Applications*, August 2018
44. M. Nazeer and **G. Rama Murthy**, "Energy Efficient, Data Centric Routing Algorithm in Mobile Wireless Sensor Nodes (Energy Savings Quantification)," *JCSE International Journal of Computer Sciences and Engineering*, pp. 127-135, Vol-6, Issue-10, October 2018, E-ISSN: 2347-2693.
45. **S Jagan Mohan Rao**, Yogesh Shrivastava, Gagan Kumar and **Dibakar Roy Chowdhury**, "Modulating Fundamental resonance in Capacitive Coupled Assymmetric Terahertz Metamaterials", *Scientific Reports*, 8, 16773 (2018).

46. S Jagan Mohan Rao, Gagan Kumar, Abul Azad and **Dibakar Roy Chowdhury**, "Ultrafast Relaxation of Charge Carriers induced switching in Terahertz Metamaterials", *Journal of Infrared Millimetre and Terahertz Waves*, 39 (12), 1211 (2018).
47. Padmalaya Nayak, **G. Rama Murthy** and Ajay Chepuri," A Novel Approach to Routing Protocol for Mobile Sink in Wireless Sensor Network to Enhance the Network Lifetime," 10th International Conference on Advanced Computing (ICoAC-2018), 13-15 December 2018.
48. **G. Rama Murthy** and Alexander Romyantsev," On an exact solution of the rate matrix of G/M/1-type Markov Process with small number of phases," *Journal of Parallel and Distributed Computing*, Elsevier Science, Vol.119, September 2018, pages 172-178.
49. Satyanarayana Nimmala, Ramadevi Y., **Cheruku Ramalingaswamy**, "A Novel Approach to Predict High Blood Pressure using ABF Function", *International Journal of Modern Education and Computer Science*, 10(7), 67-73, (2018).
50. N. Satyanarayana, Y. Ramadevi, R.Sahith and **Ramalingaswamy Cheruku**, "High blood pressure prediction based on AAA++ using machine-learning algorithms", *Cogent Engineering* , 5(1),pp.1-12, Taylor and Francis, (2018).

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53. **Ch. Nagaiah** and K. Kunisch, "Primal-dual active set strategy for large scale optimization of cardiac defibrillation", *Applied Mathematics and Computation*, Vol 292, 178-193, 2017.
54. **Jai Prakash** and G. P. Raja Sekhar, "Slow motion of a porous spherical particle with a rigid core in a spherical fluid cavity", *Meccanica*, Vol. 52, pp. 92-105, 2017.
55. **Sanjukta Das**, "Approximate Controllability of an Impulsive Neutral Differential Equation with Deviating Argument and Bounded Delay", Vol. 8(2) July 2017, pp. 132-142. ISSN: 2090-5858. "Journal of Fractional Calculus and Applications", <http://fcag-egypt.com/Journals/JFCA/>.
56. **Kalapatapu, P.**, Tejas, N. N., Dalmia, S., Gupta, P., Inguva, B., and Malapati, A. (2017), "A novel similarity measure: Voronoi audio similarity for genre classification", *International Journal of Intelligent Systems Technologies and Applications*, 16(4), 309-318.
57. Rui Li, Alex X. Liu, Sheng Xiao, Hongyue Xu, **Bezawada Bruhadeshwar** and Ann L. Wang: *Privacy and Integrity Preserving Top-k Query Processing for Two-Tiered Sensor Networks*. *IEEE/ACM Transactions on Networking* 25(4): 2334-2346 (2017)
58. Maidul Islam, **Dibakar Roy Chowdhury**, Amir Ahmed and Gagan Kumar, "Terahertz Plasmonic Waveguide based Thin Film Sensors", *IEEE Journal of Lightwave Technology*, 35, 5215 (2017).
59. Maidul Islam, Jagan Mohan Rao, Gagan Kumar, **Bishnu Pal** and **Dibakar Roy Chowdhury**, "Role of resonance modes on Terahertz Metamaterials based Thin Film Sensors", *Scientific Reports*, 7, 7355 (2017).

60. Jagan Mohan Rao, Deepak Kumar, Gagan Kumar and **Dibakar Roy Chowdhury**, "Probing the near field inductive coupling in broadside coupled terahertz metamaterials", *IEEE Journal of Selected Topics in Quantum Electronics*, 23(4), 1 (2017).
61. Koijam Monika Devi, Amarendra Kumar Sarma, **Dibakar Roy Chowdhury** and Gagan Kumar, "Plasmon Induced Transparency effects through alternatively coupled Resonators in Terahertz Metamaterials", *Optics Express*, 25, 10484 (2017).
62. **Jagan Mohan Rao**, Deepak Kumar, Gagan Kumar and Dibakar Roy Chowdhury, "Modulating the near field coupling through resonator displacement in planar terahertz metamaterials", *Journal of Infrared millimeter and Terahertz Waves*, 38, 124 (2017).
63. Maidul Islam, **Dibakar Roy Chowdhury**, Amir Ahmed and Gagan Kumar, "Terahertz Guided Mode Properties in an internally corrugated Plasmonic Waveguide", *Journal of Applied Physics*, 122, 053105 (2017).
64. **Murtaza Bohra**, Panagiotis Grammatikopoulos, Vidyadhar Singh, Junlei Zhao, Evropi Toulkeridou, Stephan Steinhauer, Joseph Kioseoglou, Jean-François Bobo, Kai Nordlund, Flyura Djurabekova and Mukhles Sowwan, "Tuning the onset of ferromagnetism in heterogeneous bimetallic nanoparticles by gas phase doping", *Physics Review Material*, 1, pp. 066001 (2017).
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91. Sumeet Walia, Charan Manish Shah, Philipp Gutruf, Hussein Nili, **Dibakar Roy Chowdhury**, Withawat Withayachumnankul, Madhu Bhaskaran and Sharath Sriram, "Flexible Metasurfaces and Metamaterials: A Review of Materials and Fabrication processes at Micro- and Nano-Scales", *Applied Physics Review*, 2, 011303 (2015).
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International/National Conferences/Workshops

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