N.JANAKIRAMAN

Publication Details

Professor
Department of ECE
K.L.N. College of Engineering
Pottapalayam – 630 612
Sivaganga District,
Tamilnadu, INDIA

Mobile: +91-98944 24665

E-Mail: janakiramanforu@yahoo.com

janakiramanforu@gmail.com

Orcid ID: <u>0000-0001-6616-5340</u> ResearcherID: <u>C-7452-2015</u> ScopusID: <u>55911815300</u>

- 1) V.Sivakumar and **N.Janakiraman**, "A novel method for segmenting brain tumor using modified watershed algorithm in MRI image with FPGA", Biosystems (Elsevier), Vol. 198, December 2020. (SCI Impact Factor 1.808) (DOI: 10.1016/j.biosystems.2020.104226) (ISSN: 0303-2647)
- 2) Sornalatha Ravindran and **Janakiraman Nithiyanantham**, "Security improved duobinary Optical Communication Scheme through Bio-Inspired Chaos Masking Scheme", IET Optoelectronics, Vol. 14, No. 5, pp. 296-305, September 2020. (SCI–Impact Factor–1.742) (DOI: 10.1049/iet-opt.2018.5080) (E-ISSN 1751-8776)
- 3) **N.Janakiraman**, P.Nirmal Kumar, S.Rajeswari, C.Kumar Charlie Paul and S.Babu, "Dynamic Resource Allocation Scheme for MIMO-OFDMA Multicast System", Proceedings of the National Academy of Sciences, India Section A: Physical Sciences (Springer), Vol. 86, No. 2, pp. 187-199, April-June 2016. (SCI Impact Factor 0.921) DOI: 10.1007/s40010-015-0247-8 (E-ISSN: 2250-1762)
- 4) **N.Janakiraman** and P.Nirmal Kumar, "An experimental study of coarse grained reconfigurable system-on-chip based software defined radio", Turkish Journal of Electrical Engineering & Computer Sciences, Vol. 24, No. 3, pp. 1176-1193, March 2016. (SCI–Impact Factor–0.682) DOI: 10.3906/elk-1307-129 (E-ISSN: 1303-6203)
- 5) **N.Janakiraman**, P.Nirmal Kumar and Syed Mohsin Akram, "Coarse grained ADRES based MIMO-OFDM transceiver with new Radix-2⁵ pipeline FFT/IFFT processor", Circuits, Systems and Signal Processing (Springer), Vol. 34, No. 3, pp. 851-873, March 2015. (SCI–Impact Factor–1.681) DOI:10.1007/s00034-014-9880-8 (E-ISSN: 1531-5878)
- 6) **N.Janakiraman** and P.Nirmal Kumar, "Multi-objective module partitioning design for dynamic and partial reconfigurable system-on-chip using genetic algorithm", Journal of Systems Architecture (Elsevier), Vol. 60, No. 1, pp. 119-139, January 2014. (SCI–Impact Factor–2.552) DOI:10.1016/j.sysarc.2013.10.001 (E-ISSN: 1383-7621)
- 7) **N.Janakiraman** and P.Nirmal Kumar, "Multi-objective hardware/software partitioning technique for dynamic and partial reconfigurable system-on-chip using genetic algorithm", International Journal of Engineering and Technology, Vol. 6, No. 2, pp. 552-558, April 2014. (E-ISSN: 0975-4024)
- 8) R.Sornalatha, **N.Janakiraman** and T.Balasharmitha, "A Novel Energy Methodical Digital Self-Interference Cancellation Technique for 5G Applications", Advances in Natural and Applied Sciences, Vol. 11, No. 7, pp. 7-14, May 2017. (E-ISSN: 1998-1090)
- 9) H.Kareemullah, **N.Janakiraman** and P.Nirmal Kumar, "Massively Parallel ECoG Signal Processing using MPSoC for Real-time Brain–Computer Interface", Asian Journal of Research in Social Sciences and Humanities, Vol. 7, No. 3, pp. 1017-1032, March 2017. (DOI: 10.5958/2249-7315.2017.00224.6) (E-ISSN: 2249-7315)
- 10) R.Mohan Kumar, A.V.Ram Prasad, S.Anitha and **N.Janakiraman**, "A Network Lifetime Enhancement method using Rendezvous algorithm in Wireless Sensor Networks", International Journal of Applied Engineering Research, Vol. 10, No. 55, pp. 1216-1221, May 2015. (E-ISSN: 0973-4562)
- 11) **N.Janakiraman**, G.N.Kishore Kumar, A.S.Nivesh Chand and S.Naveen Venkatesh, "Analysis and the Simulation for the High Gain of Two Stage CMOS Operational Amplifier Circuit", International Journal of Advanced Research in Innovative Discoveries in Engineering and Applications, Vol. 5, No. 5, pp. 53-62, October 2020. (ISSN: 2456-8805)
- 12) **N.Janakiraman**, P.Mano Arunika and P.Nirmal Kumar, "An optimized Mapping of IP Core onto NoC using Multi-Objective Evolutionary Algorithms", International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3, No. 3, pp. 1409-1414, March 2014. (E-ISSN: 2319-8753)

- 13) **N.Janakiraman**, S.J.Udaya Kumar, K.J.Sabarish, S.Vimal Kandan, P.Nirmal Kumar and S.Selvakumar, "A Low Power and High Speed MPSOC Architecture for Reconfigurable Application", International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3, No. 3, pp. 1567-1571, March 2014. (E-ISSN: 2319-8753)
- 14) R.Sivakumar, K.J.Sarathkumar, M.B.Thilak, **N.Janakiraman** and S.Selvakumar, "CGRA A New Paradigm for Reconfigurable Computing", International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3, No. 3, pp. 1562-1566, March 2014. (E-ISSN: 2319-8753)
- 15) S.Selvakumar, L.Stephy Jasmine Rani, G.Vijayalakshmi, N.Vishnudevi and **N.Janakiraman**, "Radix 2⁵ FFT Architecture implementation in Xilinx FPGA", International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3, No. 3, pp. 1507-1512, March 2014. (E-ISSN: 2319-8753)
- 16) T.G.Achyut Karthikeya, M.Gowtham, R.Gowtham, S.Selvakumar and **N.Janakiraman**, "Energy Aware Optimized Resource Allocation using Buffer based Data Flow in MPSOC architecture", International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3, No. 3, pp. 1549-1554, March 2014. (E-ISSN: 2319-8753)
- 17) V.Muthu Ganesh and **N.Janakiraman**, "A Survey of various effective CODEC implementation methods with different real time applications", 2019 International Conference on Communication and Electronics Systems (ICCES), Coimbatore, 18th July 2019, pp. 1279 1283. (DOI: 10.1109/ICCES45898.2019.9002587) (E-ISBN: 978-1-7281-1261-9) (17 19 July) (PPG Institute of Technology)
- 18) V.Sivakumar, **N.Janakiraman** and S.Naganandhini, "Machine Learning Approach improves the Quality of the MRI Images in Tumor Detection and Diagnosis: A PSO based Cluster Analysis", 2018 International Conference on Intelligent Computing and Communication for Smart World (I2C2SW), Erode, 14th December 2018, pp. 37 40. (DOI: 10.1109/I2C2SW45816.2018.8997145) (E-ISBN: 978-1-5386-9432-9) (14 15 December) (Kongu Engineering College)
- 19) A.Muthumanicckam and **N.Janakiraman**, "Design and Enactment of Bendable Micro Strip Probe for Wireless Bids", 2018 International Conference on Current Trends towards Converging Technologies (ICCTCT), Coimbatore, 2nd March 2018, pp. 1 3. (DOI: 10.1109/ICCTCT.2018.8551131) (E-ISBN: 978-1-5386-3702-9) (1 3 March) (SVS College of Engineering)
- 20) A.Muthumanicckam and **N.Janakiraman**, "Time-Correlated MIMO Channels Using Decision Feedback Receiver", Second International Conference on Optical and Wireless Technologies (OWT), Jaipur, 11th February 2018, pp. 89 99. (DOI: 10.1007/978-981-13-6159-3_11) (E-ISBN: 978-981-13-6159-3) (10 11 February) (Malaviya National Institute of Technology) (Springer Lecture Notes in Electrical Engineering)
- 21) R.Sornalatha and **N.Janakiraman**, "Multiuser Visible Light Communication System for Reliable Wireless Communication", 2017 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC), Coimbatore, 15th December 2017, pp. 1 6. (DOI: 10.1109/ICCIC.2017.8524159) (E-ISBN: 978-1-5090-6621-6) (14 16 December) (Tamilnadu College of Engineering)
- 22) R.Sornalatha, **N.Janakiraman** and T.Balasharmitha, "Modeling of Widely Linear Digitally Controlled Self-Interference Canceller for Full-Duplex Transceiver", 2017 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), Chennai, 22nd March 2017, pp. 229-235. (DOI: 10.1109/WiSPNET.2017.8299753) (E-ISBN: 978-1-5090-4442-9) (22 24 March) (SSN College of Engineering)
- 23) H.Kareemullah, **N.Janakiraman** and P.Nirmal Kumar, "A Survey on Embedded Reconfigurable Architectures", 2017 International Conference on Communications and Signal Processing (ICCSP), Chennai, 8th April 2017, pp. 1500-1504. (DOI: 10.1109/ICCSP.2017.8286636) (E-ISBN: 978-1-5090-3800-8) (6 8 April) (Adhiparasakthi Engineering College)
- 24) S.Anitha and **N.Janakiraman**, "Network Lifetime Augmentation by EASR Method in Wireless Sensor Networks", 2015 International Conference on Circuit, Power and Computing Technologies, Kumaracoil, 20th March 2015, pp. 1 7. (DOI: 10.1109/ICCPCT.2015.7159497) (E-ISBN: 978-1-4799-7075-9) (19 20 March) (Noorul Islam University)

- 25) **N.Janakiraman** and P.Nirmal Kumar, "A Novel Hardware/Software Partitioning technique for System-on-Chip in Dynamic Partial Reconfiguration using Genetic Algorithm", Second International Conference on Soft Computing for Problem Solving, Jaipur, 28th December 2012, pp. 83-91. (DOI: 10.1007/978-81-322-1602-5_10) (ISBN: 978-81-322-1602-5) (28 30 December) (JK Lakshmipat University)
- 26) **N.Janakiraman** and P.Nirmal Kumar, "System-On-Chip implementation of MIMO-OFDM Transceiver for Software Defined Radio", IETE National Conference on Expanding Horizon in Computer, Information Technology, Telecommunication and Electronics, Chennai, 21st April 2012, pp. 97-100. (ISBN: 978-1-4507-5679-2) (20 21 April) (Loyola ICAM College of Engineering and Technology)
- 27) A.P.Sriram and **N.Janakiraman**, "Image Processing System using Drones", National Conference on Computing and Communication in Emerging Technologies, Karur, 23rd March 2018, pp. 98-101. (23 March) (Chettinad College of Engineering and Technology)
- 28) K.Karthiga and **N.Janakiraman**, "An Efficient Human Tracking System using Local Binary Pattern and Cellular Non Linear Networks", International Web Conference on Smart Engineering Technologies 2020 (IWCSET-2020), Rajapalayam, 26th June 2020, pp. 72-75. (26 27 June) (Ramco Institute of Technology)
- 29) S.Sandiya and **N.Janakiraman**, "Multiclass Support Vector Machine based Detection and Classification of Lung Cancer Stages", International Conference on Emerging Trends in Wireless Communications, Signal Processing and Networking, Coimbatore, 8th March 2019, pp. 112-116. (7 8 March) (Avinashilingam Institute for Home Science and Higher Education for Women)
- 30) K.Mathumala and **N.Janakiraman**, "Detection of Malicious Nodes in IoT Networks using Machine Learning Technique", International Conference on Innovations in Engineering and Industrial Applications (ICIEIA-18), Madurai, 11th May 2018, pp. 82-87. (11 12 May) (K.L.N. College of Engineering)
- 31) C.Kanimozhi and **N.Janakiraman**, "Detection and Prevention of Wormhole Attacks in Wireless Sensor Networks using Distributed Deadlock Detection Algorithms", International Conference on Recent Trends in Computing and Information Technology (ICRTCIT), Chennai, 29th March 2017, pp. 512-518. (27 31 March) (SRM Institute of Science and Technology)
- 32) S.Prabu and **N.Janakiraman**, "Deployment of Wireless Services in Vehicles using SDR based Wireless Communication", International Conference on Emerging Trends in Information & Communication Technologies (ETICT-2016), Pulloor, 27th April 2016, pp. 123-129. (27 April) (Sethu Institute of Technology)
- 33) M.Kalaiyarasi and **N.Janakiraman**, "Network Routing without Delay using Message Scheduling", International Conference on Recent Advances in Engineering, Science and Technology (ICON'15), Kumaracoil, 17th April 2015, pp. 348-352. (17 April) (Noorul Islam University)
- 34) B.Sreedevi and **N.Janakiraman**, "FPGA implementation of DSSS-CDMA Transmitter and Receiver", National Conference on Advanced Telecommunication Technologies (ATT), Madurai, 31st March 2010, Article No.: S11. (pp. 76-81) (31 March and 1 April) (K.L.N. College of Engineering)
- 35) Sini S Raj and **N.Janakiraman**, "Design of GF Multiplier Architecture used in Multi-Core Configurable AES for Information Security", International Conference on Operations Research Applications in Engineering and Management, Tiruchirappalli, 29th May 2009, pp. 236-241. (27 29 May) (Anna University Tiruchirappalli)
- 36) S.Kalyani and **N.Janakiraman**, "SEMG Based Study on the Difference in the Muscle Strength of a Half Paralytic Person due to Stroke", National Conference on Wireless Information and Networking in Global Systems, Madurai, 18th April 2009, pp. 146-150. (17 -18 April) (K.L.N. College of Engineering)
- 37) K.Illiaya Raja and **N.Janakiraman**, "Sensor and Solar based Irrigation Eco-Friendly Approach", National Conference on Intelligent Computing Models (NCICM 2008), Salem, 22nd February 2008, pp. 323-329. (22 23 February) (Periyar University)
- 38) H.Girish Kumar and **N.Janakiraman**, "Kalman Filter Channel Estimation Based Inter Carrier Interference Cancellation Techniques in OFDM Systems", International Conference on Embedded Systems, Mobile Communication and Computing, Bangalore, 4th August 2007, pp. 928-932. (3 5 August) (PES University)