

Dr. Jijesh J.J

B.Tech, M.Tech, Ph.D. [MIEEE, MIEI, MISTE, MINSC, MIMAPS]

Associate Professor & IQAC Head, Department of E&CE, SVCE, Bengaluru.

GOOGLE SCHOLAR ID : 0EtKFzAAAAAJ&hl=en
ORCID ID : 0000-0001-6530-7319
PUBLONS ID : 1686437

Biography

Dr. Jijesh J. J has 15 years of experience in teaching and 07 years of experience in research and is currently working as Associate Professor and IQAC Head in the Electronics & Communication Department at Sri Venkateshwara College of Engineering, Bangalore. He received B.Tech Degree in Electronics & Communication Engineering from Kannur University in 2006, completed M.Tech. Degree in Electronics from Visvesvaraya Technological University, Belguam, in 2010 and awarded Doctorate Degree in the field of Wireless Communication from Visvesvaraya Technological University, Belguam, in 2019. The area of the interest includes Wireless Communication, Sensor Networks, Embedded Systems, and Communications.

He has more than 53 publications in his credit in various prestigious journals and has h-Index of 5 also received grants from KSCST, DST, AICTE, IEEE and various prestigious organisations. He has been IEEE RTEICT International Conference Co-ordinator since 2016 to 2021 and has served as Jury/reviewer for IEEE Conferences, IET Journal and IEEE Journal.

He is a mentor for NITTT, ambassador for IIC and acted as a coordinator for NBA and NAAC accreditation. He is recognised as research guide under Visvesvaraya Technological University, Belguam and guided more than 28 projects in UG, and 4 in PG. His area of interest includes Wireless Communication, Wireless Sensor Networks and Wireless Body Area Network. He was associated with Coorg Institute of Technology and Brindavan College of Engineering. He is a Life member of MIEEE, MIEI, MISTE, MINSC and MIMAPS.

Research Interests

- Wireless Communication
- Wireless Sensor Networks
- Ad-hoc Networks
- Wireless Body Area Network
- Embedded Systems
- Antenna

Selected Publications

Journal

- [1].**Dr. Jijesh J J**, Mahaveer Penna, Dr. Shivashankar & Dr. Keshavamurthy “ **Zenneck surface wave interconnect with encircle routing for effective inter chip communication**” International Journal of RF and Microwave Computer-Aided Engineering, Wiley, (SCOPUS INDEX), 2021. <https://doi.org/10.1002/mmce.22769>

- [2].**Dr. Jijesh J J**, Dr. Shivashankar & Dr. Keshavamurthy “**A Supervised Learning Based Decision Support System for Multi-Sensor Healthcare Data from Wireless Body Sensor Networks**”. Wireless Personal Communications, Springer, (SCOPUS INDEX), 2021. <https://doi.org/10.1007/s11277-020-07762-9>
- [3].**Dr. Jijesh J J**, Suraj S and Sarun Soman, "**Analysis of Dual Phase Dual Stage Boost Converter for Photovoltaic Applications**", International Journal on Advanced Science, Engineering and Information Technology, (SCOPUS INDEX), ISSN: 2088-5334, DOI:10.18517/ijaseit.10.3.5346, Volume. 10, Issue no. 3, pp. 920-928, 2020.
- [4].**Dr. Jijesh J J**, Dr. Dileep Reddy Bolla, Prof.Mahaveer Penna, Dr. Shivashankar “**An Energy Efficient Spectrum Aware Routing For Cognitive Radio Networks**”, International Journal of Sensors Wireless Communication & Control. (SCOPUS INDEX), DOI: 10.2174/2210327910999201102193851, 2020.
- [5].**Dr. Jijesh J J**, Prof. Mahaveer Penna, Dr. Shivashankar & Dr. Keshavamurthy "**Exploring Suitable Conditions for Effective Inter Chip Communication Based on Surface Wave Phenomenon**", International Journal of Electrical and Computer Engineering (IJECE)". ISSN 2088-8708, (SCOPUS INDEX), Accepted, 2021
- [6].**Dr. Jijesh J.J** and Dr. Shivashankar,” **Centralized framework for Elegant Hospital Mechanization**”, International Journal of Engineering & Technology (UAE), (SCOPUS INDEX), DOI: 10.14419/ijet.v7i4.10675, Vol 7, No. 4, pp. 5281-5287, 2018.
- [7].**Dr. Jijesh J.J** and Dr. Shivashankar, “**Issues and performance analysis on energy conservation in WBSN system: An overview**” Journal of Advanced Research in Dynamical and Control Systems (JARDCS), 09-Special Issue, (SCOPUS INDEX), July 2017.
- [8].**Dr. Jijesh J.J** and Dr. Shivashankar, “**Real-Time Data Fusion Applications in Embedded Sensor Network using TATAS**” Indian Journal of Science and Technology, Vol 10(13), DOI: 10.17485/ijst/2017/v10i13/104550, (SCOPUS INDEX), April 2017.
- [9].**Dr. Jijesh J.J** and Dr. Shivashankar, “**Energy efficient routing protocol based on DSR**” International Journal of Ad hoc, sensor & Ubiquitous Computing (IJASUC), Vol.7, No.5, ISSN: 0976-1764 (Online), 0976-2205 (Print), October, 2016.
- [10]. **Dr. J.J Jijesh**, Ravi Gatti, M.S. Pramod, “**Implementation of MIMO Radar for Multiple Target Detection**” IOSR Journal of Electronics and Communication Engineering (IOSR-JECE) e-ISSN: 2278-2834, p- ISSN: 2278-8735. Volume 8, Issue 6 (Nov. - Dec. 2013), PP 12-19.
- [11]. **Dr. Jijesh J J**, Mahija K, Pushpalatha B G , "**MEMS based drug delivery system using micropump**," International Journal of Electronics Signals and Systems: Vol. 2: Iss. 3, Article 16. Interscience, 2013.

Conference

- [1].**Dr. Jijesh J.J**, S. shankar, Ranjitha, D. C. Revathi, M. Shivaranjini and R. Sirisha, "**Development of Machine Learning based Fruit Detection and Grading system,**" 2020 International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), Bangalore, India, 2020, pp. 403-407, doi: 10.1109/RTEICT49044.2020.9315601.
- [2].**Dr. Jijesh J.J**, S. S. Palle, D. R. Bolla, M. Penna, V. P. Sruthi and G. Alla, "**Design and Implementation of Automated Fire Fighting and Rescuing Robot,**" 2020 International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), Bangalore, India, 2020, pp. 320-323, doi: 10.1109/RTEICT49044.2020.9315552.
- [3].**Dr. Jijesh J.J**, S. shankar, D. R. Bolla, M. Penna, P. V. Sruthi and A. Gowthami, "**Early Detection of Flood Monitoring and Alerting System to Save Human Lives,**" 2020 International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), Bangalore, India, 2020, pp. 353-357, doi: 10.1109/RTEICT49044.2020.9315556.
- [4].**Dr. Jijesh J.J**, D. R. Bolla, S. S. Palle, M. Penna, Keshavamurthy and Shivashankar, "**An IoT Based Smart E-Fuel Stations Using ESP-32,**" 2020 International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), Bangalore, India, 2020, pp. 333-336, doi: 10.1109/RTEICT49044.2020.9315676.
- [5].**Dr. Jijesh J.J**, M. Penna, Shivashankar and Keshavamurthy, "**Material Analysis To Achieve High Field Confinement For Effective Surface Wave Communication,**" 2020 International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), Bangalore, India, 2020, pp. 393-397, doi: 10.1109/RTEICT49044.2020.9315671.
- [6].**Dr. Jijesh J.J**, S. S. Palle, D. R. Bolla, M. Penna, P. V. Sruthi and G. Alla, "**Modernized Compartment With Safety Measures in Railways,**" 2020 International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), Bangalore, India, 2020, pp. 363-367, doi: 10.1109/RTEICT49044.2020.9315565.
- [7].**Dr. Jijesh J.J**, S. shankar, M. Penna, D. R. Bolla, K. murthy and H. A. Navyashree, "**Real Time Image Classification Based Smart Railway Platform Using Convolutional Neural Network,**" 2020 International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), Bangalore, India, 2020, pp. 398-402, doi: 10.1109/RTEICT49044.2020.9315555.
- [8].**Dr. Jijesh J.J**, Dr. Shivashankar, Pooja H R, Shwetha Nagesh, T Gagandeep, Shimron Immanuel S, "**Swachh Robo Ones Cleanliness Identity** " 2019 4th International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT-2019), pp.1538-1543, ISBN:10.1109/RTEICT 46194.2019. 9016958, May 17th & 18th 2019.

- [9]. **Dr. Jijesh J.J.**, Dr. Shivashankar, Balu B Naidu, J Michael, Arun Kumar, Dhanush K, **”Swarm-Based Unmanned Underwater Vehicles to Oversee Dams and Its Surrounding Ecosystem”** 2019 4th International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT-2019), pp. 1465-1470, ISBN: 10.1109/RTEICT46194.2019.9016851, May 17th & 18th 2019.
- [10]. **Dr. Jijesh J.J.**, Dr. Shivashankar, Roopashree K, Sukanya S Jambagi, Pradeep Kumar S M, Uday Kumar M D, **”FPGA based interface interlock unit for radar power sequencing”** 2018 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2018), pp. 1346-1350, ISBN: 10.1109/RTEICT42901.2018.9012617, May 18th & 19th 2018.
- [11]. **Dr. Jijesh J.J.**, Dr. Shivashankar, Rashmi L, S Jayashree, Sai kiran A, Shreyas S, **”Design and Development of Intuitive Environment with Health Monitoring System Using Internet of Things”**, 2018 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2018), pp. 1351-1355, ISBN: 10.1109/RTEICT42901.2018.9012157, May 18th & 19th 2018.
- [12]. **Dr. Jijesh J.J.**, Suraj S, Sridhar N K, Dr. Shivashankar, **”Automatic Parking Gateway using Character Recognition”**, 2018 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2018), pp. 1623-1627, ISBN: 10.1109/RTEICT42901.2018.9012222, May 18th & 19th 2018.
- [13]. **Dr. Jijesh J.J.**, Dr. Keshavamurthy, Akshay N, Amal D Nair, Anjan Kumar G, Arun Gangatkar R R, **”Wireless Oxygenator”**, 2018 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2018), pp. 2453-2456, ISBN: 10.1109/RTEICT42901.2018.9012241, 18th & 19th May 2018.
- [14]. **Dr. Jijesh J.J.**, Dr. Shivashankar, M Susmitha, M Bhanu, P Sindhanakeri, **”Development of a CTD sensor subsystem for oceanographic application”** 2017 2nd IEEE International Conference On Recent Trends in Electronics Information & Communication Technology (RTEICT), pp. 1487-1492. ISBN: 10.1109/RTEICT.2017.8256845, 19th – 20th May 2017.
- [15]. **Dr. Jijesh J.J.** and Dr. Shivashankar, **”Implementation of Health Monitoring in Sensor Platform for Wireless Body Area Network”** 2017 2nd IEEE International Conference On Recent Trends in Electronics Information & Communication Technology (RTEICT), pp. 1265 - 1270. ISBN: 978-1-5090-3704-9, 19th – 20th May 2017.
- [16]. **Dr. Jijesh J.J.**, Mahaveer Penna, Dankan V Gowda **”Design and implementation of automatic medicine dispensing machine”** 2017 2nd IEEE International Conference On Recent Trends in Electronics Information & Communication Technology (RTEICT), pp. 1962-1966. ISBN: 10.1109/RTEICT.2017.8256941, 19th – 20th May 2017.

- [17]. **Dr. Jijesh J.J**, Prasanna A Dinesh, M Prabhakar, M Vinayak Murthy “**IADA intelligent cargo system with integrated fingerprint module and GPS modules**” 2017 2nd IEEE International Conference On Recent Trends in Electronics Information & Communication Technology (RTEICT), pp. 2160-2165. ISBN: 10.1109/RTEICT.2017.8256983, 19th – 20th May 2017.
- [18]. **Dr. Jijesh J.J** ; Dr. Shivashankar ; S.K Anusha ; K.M Guna ; Rashmi “**Design and development of band pass filter for X-band RADAR receiver system**” 2017 2nd IEEE International Conference On Recent Trends in Electronics Information & Communication Technology (RTEICT), pp. 2065-2070. ISBN: 10.1109/RTEICT.2017.8256963, 19th – 20th May 2017.
- [19]. **Dr. Jijesh J.J** and Dr. Shivashankar, “**A Survey on Wireless Body Sensor Network Routing Protocols Classification**” IEEE Sponsored 3rd International Conference on Electronics and Communication Systems (ICECS 2016), pp. 244-249. ISBN: 978-1-4673-7832-1, 25th-26th February 2016.
- [20]. **Dr. Jijesh J.J**, Suraj S, SarunSoman" **Implementation of interleaved Dual Boost Converter Utilizing FPGA for PWM**" in IEEE International Conference On Recent Trends in Electronics, Information and Communication Technology (RTEICT), 20th to 21st May 2016 at SVCE, Bangalore.
- [21]. **Dr. Jijesh J.J**, Mahaveer Penna, Pramod M S, Dileep Reddy Bolla, SatyasrikanthPalle"**Reconfiguring CPLD To Perform Operations Based On Sequence Detection Condition** " in IEEE International Conference On Recent Trends in Electronics, Information and Communication Technology (RTEICT), 20th to 21st May 2016 at SVCE, Bangalore.