

Dr. Shivashankar

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Biography [Heading –Times New Roman size – 14]

Dr. Shivashankar has a career spanning over twenty years in the field of Engineering education. Starting as a Lecturer in 2000, after completing his Masters with Distinction, he acquired a Doctorate on Wireless Communication in 2014 in a time of 4 years from Visvesvaraya Technological University, Belgaum. He has published 90 Technical Papers in International Journals / National / International Conferences/ Seminars in the last 5 years. Presently working as Professor and Head of the Department, Electronics and Communication Engineering, SVCE, Bangalore. Awarded 5 Doctorates and presently guiding 8 Ph.D. Research Scholars at Visvesvaraya Technological University, Belgaum.

Research Interests

- Wireless Ad Hoc & Sensor Networks
- Cognitive Radio with emphasis on Design & Analysis of MAC
- Cross Layer Design and Cooperative Diversity Schemes to Design & Analysis of MAC and Routing Protocols

Selected Publications

INTERNATIONAL JOURNALS

- [1] Dr.Shivashankar, “Design and control of autonomous hybrid wind solar system with DFIG supplying three-phase four-wire loads”, Elsevier, <https://doi.org/10.1016/j.asej.2020.11.027>,
- [2] **Dr. Shivashankar**, “A Supervised Learning Based Decision Support System for Multi-Sensor Healthcare Data from Wireless Body Sensor Networks”, Springer Journal of Wireless Personal Communications, <https://doi.org/10.1007/s11277-020-07762-9-2020>, Vol.118, Issue-2, pp. 1795–1813, ISSN: 0929-6212, Impact factor:1.061(2020).
- [3] **Dr. Shivashankar**, “Mobility Prediction Assisted Call Admission Control Model for Mobile Heterogeneous Cellular Network”, *InderScience-International Journal of Communication Networks and Distributed Systems*, ISSN: 1754-3924, **DOI:** [10.1504/IJCND.2021.113001](https://doi.org/10.1504/IJCND.2021.113001), Vol.26 No.2, pp.219 – 244, 2020.

- [4] **Dr. Shivashankar**, "A Robust QSCTA-EDR Routing Protocol for Cognitive Radio Sensor Networks", *InderScience-International Journal of Communication Networks and Distributed Systems*, ISSN: 1754-3924, DOI:10.1504/IJCNDS.2020.10028910, 2020. [Vol. 25, No. 4, 2020](#).
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- [6] **Dr. Shivashankar**, "Energy Secured Intrusion detection System and Analysis of Attacks for Mobile Adhoc Networks", *Journal of Communication, Engineering and Technology Publishing*, ISSN:1796-2021, Vol.15, No. 5, DOI:10.12720/jcm.15.5.406-414, pp-406-414, 2020.
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- [8] **Dr. Shivashankar**, "Efficient Performance Analysis of Energy aware on demand Routing Protocol in Mobile Ad-Hoc Network", *Wiley Publication- Engineering Report*, Vol.2, Issue-3, 2020, ISSN: 2577-8196, DOI: 10.1002/eng2.12116, 2020.
- [9] **Dr Shivashankar**, "Bio signals Compression using Auto encoder", *InderScience-International Journal of Electrical & Computer Engineering*, DOI: <http://doi.org/10.11591/ijece.v11i1.pp424-433> , p-ISSN 2088-8708, e-ISSN 2722-2578, Vol.11, ISSN:2088-8708, 2020.
- [10] **Dr. Shivashankar**, "Improving the AODV route recovery mechanism using PSO in WSN" *Bentham Science Publishers -International Journal of Sensors, Wireless Communications and Control*,–**Vol.10,Issue-5,ISSN:2210-3287,2020**, **DOI : [10.2174/2210327909666191126110201](https://doi.org/10.2174/2210327909666191126110201)**. Pp. 707 – 715.
- [11] **Dr. Shivashankar**, "Security Framework for Physiological Signals Using Auto Encoder", *Journal of Advanced Research in Dynamical & Control Systems*, Vol.12, 01-Special Issue, DOI : 10.5373/JARDCS/V12SP1/20201107, ISSN 1943-023X, 2020.
- [12] **Dr. Shivashankar**, "QoS Aware MIMO Based CAC Approach for Wireless Mobile Networks", *International Journal of Innovative Technology and Exploring Engineering*, ISSN:2278-3075 (Online), Vol 8 , Issue 8, pp.3252-3257, 2019.
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INTERNATIONAL CONFERENCE PUBLICATIONS

- [1] **Shivashankar** "Random Node Deployment and Route Establishment in Receiver Based Routing Protocol for WSNs", 2016 IEEE Conference on Recent Trends in Electronics, Information and Communication Technology (RTEICT-2016), ISBN: 978-1-5090-0774-5, May 20th and 21st, 2016.pp – 74-78.
- [2] **Shivashankar** and Rajendra Prasad P "VLSI Efficient Search Estimation Video Compression Algorithm" at 5th IEEE International Conference on Communication and Signal Processing (ICCSP-2016), Adhiparasakthi Engineering College, Melmaruvathur, India on 6,7,8 April 2016
- [3] **Shivashankar** and Jijesh JJ " A Survey on Wireless Body Sensor Network Routing Protocol Classification", IEEE SPONSORED 3rd International Conference On Electronics And Communication Systems (ICECS 2016), 25th to 26th February 2016, Karpagam College of Engineering, Coimbatore, PP: 244-249.
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- [6] **Shivashankar** “Improvement of Speed in Data Collection Rate in Tree based Wireless Sensor Network”, 2016 IEEE conference on Recent Trends in Electronics, Information and Communication Technology (RTEICT-2016), ISBN: 978-1-5090-0774-5, May 20th and 21st, 2016.pp – 720-723.
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- [8] **Shivashankar** “Design and development of new apparatus in VANETs for safety and accident avoidance.”, 2016 IEEE conference on Recent Trends in Electronics, Information and Communication Technology (RTEICT-2016), ISBN: 978-1-5090-0774-5, May 20th and 21st, 2016.pp – 1695-1698.
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- [40] **Shivashankar**, “Design and Development of Intuitive Environment with Health Monitoring System Using Internet of Things” 18-19 May 2018, IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT) 2018, IEEE XPLORE ISBN : 978-1-5386-2440-1
- [41] **Shivashankar**, Mahaveer Penna “Hand Gesture Controlled Message Conveyer And Controlling Devices For Physically Disabled” 18-19 May 2018, IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT) 2018, IEEE XPLORE ISBN : 978-1-5386-2440-1.
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- [46] **Shivashankar** “Design and implementation of SALVUS women safety device” 18-19 May 2018, IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT) 2018, IEEE XPLORE ISBN: 978-1-5386-2440-1.
- [47] **Shivashankar**, “Swachh Robo Ones Cleanliness Identity” 4th IEEE International Conference On Recent Trends in Electronics Information & Communication Technology RTEICT- 2019, IEEE XPLORE ISBN : 978-1-7281-0630-4
- [48] **Shivashankar**, “Soil Quality Measurement using Image Processing and Internet of Things” 4th IEEE International Conference On Recent Trends in Electronics Information & Communication Technology RTEICT- 2019, IEEE XPLORE ISBN : 978-1-7281-0630-4

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- [51] **Shivashankar**, “Li-Fi Technology Based Audio and Text Transmission” 4th IEEE International Conference On Recent Trends in Electronics Information & Communication Technology RTEICT- 2019, IEEE XPLORE ISBN : 978-1-7281-0630-4
- [52] **Shivashankar**, “IOT Based Agile System for Effective usage of reserved Sustainable Energy with unmanned Switching” 4th IEEE International Conference On Recent Trends in Electronics Information & Communication Technology RTEICT- 2019, IEEE XPLORE ISBN : 978-1-7281-0630-4.