

# **Dr. Rajendra Prasad P**

BE, M-Tech, PhD [SMIEEE]

Associate Professor, Department of Electronics & Communication Engineering, SVCE, Bengaluru

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## **Biography**

Dr. Rajendra Prasad P has a career spanning over eleven years in the field of engineering education. Pursued Ph.D. from Visvesvaraya Technological University, Belagavi in the domain of wireless communication during 2016-2021. M.Tech. degree from M.S Ramaiah Institute of Technology in 2010. B.E degree in Electronics and Communication Engineering from Vijayanagara College of Engineering, Bellary in 2008. One patent and published more than 35 Technical Papers related to the domain wireless communication, mobile ad-hoc networks, image processing in the reputed international Journals, International/National Conferences. Performed as a reviewer for journals including IEEE Transactions on Mobile Computing and IEEE Access; and for many IEEE international conferences. Faculty Mentor for the DST & Texus Instruments India Innovation Challenge Design Contest 2019. Also Jury member for ‘Smart India Hackathon, 2019’. Currently working as an Associate Professor in the Department of Electronics & Communication Engineering, Sri Venkateshwara College of Engineering, Bangalore.

## **Research Interests**

- Wireless Communication
- Mobile Ad-Hoc Networks
- Communication
- Embedded System Design

## **Selected Publications**

### **Journal**

[J1]. Rajendra Prasad P. and Shiva Shankar, “Securing Energy Routing Protocol Against Black Hole Attacks in Mobile Ad-Hoc Network”, Recent Advances in Computer Science and Communications, ISSN: 2666-2558(print), ISSN: 2666-2566(online), 14: 2835.

<https://doi.org/10.2174/2666255813666200814171401>, 2021.

- [J2]. Rajendra Prasad P and Dr. Shivashankar, "Energy Secured Intrusion Detection System and Analysis of Attacks for Mobile Ad-Hoc Networks", *Journal of Communications*, ISSN: 1796-2021 (Online); 2374-4367 (Print) vol. 15, no. 5, pp. 406-414, DOI: 10.12720/jcm.15.5.406-414, 2020.
- [J3]. Rajendra Prasad P and Dr. Shivashankar, "Efficient Performance Analysis of Energy Aware on Demand Routing Protocol in Mobile Ad-Hoc Network", *Engineering Reports*, Volume 2, Issue 3, e12116 © John Wiley & Sons Ltd, Online ISSN: 2577-8196. doi.org/10.1002/eng2.12116, 2020.
- [J4]. Rajendra Prasad P and Dr. Shivashankar, "Secured Intrusion Detection System Energy Routing Protocol for Mobile Ad-Hoc Network", *International Journal of Engineering and Advanced Technology (IJEAT)* ISSN: 2249–8958, Volume-9 Issue-1S6, pp. 32-37, DOI:10.35940/ijeat.A1007.1291S619, 2019.
- [J5]. Rajendra Prasad P and Dr. Shivashankar, "Improvement of Battery Lifetime of Mobility Devices using Efficient Routing Algorithm", *Asian Journal of Engineering Technology and Applications*, Vol 1(1), 13-20, DOI:10.18311/ajeta/2017/8527, 2017.

## **Conference**

- [C1]. Rajendra Prasad P, J. L. Avinash, G. B. Arjun Kumar, G. R. Poornima, S. Santosh Kumar and K. Sunil Kumar, "IoT based Smart Water Quality Monitoring and Flow Control System", 2020 International Conference on Recent Trends on Electronics, Information, Communication & Technology, pp. 358-362, doi: 10.1109/RTEICT49044.2020.9315670, 2020.
- [C2]. Rajendra Prasad P, N. Nataraja and G. Arjun Kumar, "IoT based Agriculture Flood Water Harvesting and Crop Assessment", 2020 International Conference on Recent Trends on Electronics, Information, Communication & Technology, pp. 368-372, doi:10.1109/RTEICT49044.2020.9315714, 2020.
- [C3]. K. Sunil Kumar, N. Nataraja, J. L. Avinash, Rajendra Prasad P, S. Santosh Kumar and G. B. Arjun Kumar, "Design Of Led's For Interactive Court Lines", 2020 International Conference on Recent Trends on Electronics, Information, Communication & Technology, pp. 383-387, doi: 10.1109/RTEICT49044.2020.9315667, 2020.
- [C4]. G. R. Poornima, J. L. Avinash, S. Palle, S. Santosh Kumar, K. N. Sunil Kumar and Rajendra Prasad P, "Image Processing Based Human Pursuing Robot", 2020 International Conference on Recent Trends on Electronics, Information, Communication & Technology, pp. 408-412, doi: 10.1109/RTEICT49044.2020.9315662, 2020.

- [C5]. Rajendra Prasad P, A. Bhanuja, L. Bhavani, N. Bhoomika and B. Srinivas, "Power Generation Through Footsteps Using Piezoelectric Sensors Along with GPS Tracking", 2019 4<sup>th</sup> International Conference on Recent Trends on Electronics, Information, Communication & Technology, pp. 1499-1504. doi: 10.1109/RTEICT46194.2019.9016865, 2019.
- [C6]. N. Nataraja, Rajendra Prasad P, S. Joseph, U. Shiva Kumar, P. Swathi and S. Thanusha, "Design of Driverless Train using Li-Fi Communication", 2019 4<sup>th</sup> International Conference on Recent Trends on Electronics, Information, Communication & Technology, pp. 556-562. doi: 10.1109/RTEICT46194.2019.9016842, 2019.
- [C7]. S. S. Ramaprasad, B. S. Sunil Kumar, S. Lebaka, Rajendra Prasad P, K. N. Sunil Kumar and G. N. Manohar, "Intelligent Crop Monitoring and Protection System in Agricultural fields Using IoT" 2019 4<sup>th</sup> International Conference on Recent Trends on Electronics, Information, Communication & Technology, pp. 1527-1531, doi:10.1109/RTEICT46194.2019.9016770, 2019.
- [C8]. Rajendra Prasad P, M. Ashok, N. K. Kulkarni, K. Santhosh and S. Krishna Kumar, "Design of Smart Kiosk for an Integrated Vehicle Monitoring System", 2018 3<sup>rd</sup> IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology, pp. 1409-1413. doi: 10.1109/RTEICT42901.2018.9012538, 2018.
- [C9]. Rajendra Prasad P, N. Narayan, S. Gayathri and S. Ganna, "An Efficient E-Health Monitoring with Smart Dispensing System for Remote Areas", 2018 3<sup>rd</sup> IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology, pp. 2120-2124. doi: 10.1109/RTEICT42901.2018.9012480, 2018.
- [C10]. S. S. Ramaprasad, G. N. Rajesh, K. N. Sunil Kumar and Rajendra Prasad P, "Fully Automated PCB testing and analysis of SIM Module for Aircrafts", 2018 3<sup>rd</sup> IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology, pp. 2016-2020. doi: 10.1109/RTEICT42901.2018.9012443, 2018.
- [C11]. Rajendra Prasad P, Dr. Shivashankar, "Multitier Energy System Review on Secure Intrusion Detection System in MANETs", 2017 2<sup>nd</sup> IEEE International Conference on Recent Trends in Electronics Information & Communication Technology, ISBN: 978-1-5090-3704-9, 2017.
- [C12]. Rajendra Prasad P, R. Arora, K. Ambika, M. Sushma, R. Supriya and G. Gayithri, "Bus Frequency Optimization by Avoid Bus Bunching using Wireless Network", 2017 2nd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology, pp. 2052-2056. doi: 10.1109/RTEICT.2017.8256960, 2017.

- [C13]. Rajendra Prasad P, Dr. Shivashankar, “An Efficient Routing Algorithm based on Ant Colony Optimisation for VANETs”, 2016 IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology, pp. 436-440, doi: 10.1109/RTEICT.2016.7807858, 2016.
- [C14]. Rajendra Prasad P, Dr. Shivashankar, “Opportunistic Routing Technique for Minimized Energy Consumption for Relay Node Selection in Wireless Sensor Networks”, 2016 IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology, pp. 2093-2097. doi: 10.1109/RTEICT.2016.7808208, 2016.
- [C15]. Rajendra Prasad P, “Zone based Hierarchical Energy Efficient Clustering Scheme for WSN”, 2016 IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology, pp. 136-140, doi: 10.1109/RTEICT.2016.7807799, 2016.
- [C16]. Rajendra Prasad P, Dr Shivashankar, “Improvement of Speed in Data Collection Rate in Tree Based Wireless Sensor Network”, 2016 IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology, pp. 720-723, doi: 10.1109/RTEICT.2016.7807918, 2016.
- [C17]. G. Joshi, Rajendra Prasad P and A. Singh, “FPGA Implementation of Channel Emulator for Testing of Wireless Air Interface using VHDL”, 2016 IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology, pp. 728-732. doi: 10.1109/RTEICT.2016.7807920, 2016.
- [C18]. Rajendra Prasad P, K. N. S. Kumar, Shivashankar and G. B. A. Kumar, “VLSI Efficient Search Estimation Video Compression Algorithm”, 2016 International Conference on Communication and Signal Processing (ICCSP), pp. 0544-0548, doi: 10.1109/ICCSP.2016.7754197, 2016.
- [C19]. P. Parvathi and Rajendra Prasad P, “FPGA based design and implementation of Reed-Solomon encoder & decoder for error detection and correction”, 2015 Conference on Power, Control, Communication and Computational Technologies for Sustainable Growth (PCCCTSG), pp. 261-266. doi: 10.1109/PCCCTSG.2015.7503941, 2015.