

# **Prof. Sunil Kumar K N**

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## **Biography**

Sunil Kumar K N , **Finished his B. E. in Electronics & Communication** from J.N.N. College of Engineering, affiliated to VTU, **M. Tech** from R.V College of Engineering, affiliated to V.T.U, Belagavi and currently pursuing **Ph.D** in the field of Wireless communication at V T U.

Around 10+ years of Teaching experience in the field of communication. During this tenure most of the time is dedicated in developing and delivering lectures for students at all levels. Involvement in research was part of the work culture in the field of Wireless Communication. He is having life time professional body Member in MISTE and FIE. Presently he is working has a Assistant Professor at Sri Venkateshwara College of Engineering, Bangalore.

To his credit prolifically published around 20+ papers in national / international journals and conferences. He has also filed and published 1 patent. He had received grant from VGST, under various schemes. He is a Life member of MISTE, IEI.

## **Research Interests**

- Wireless Communication
- VLSI & Embedded System
- IoT
- Signal Processing

## **Selected Publications**

### **International Journal:**

1. Sunil Kumar K N and Dr. Shivashankar, “An auto Encoder Bio-medical Signal Transmission to Optimize Power and Security through CNN”, Journal of Computational Medicine and Healthcare: IJCMH, Inderscience Publishers, *ISSN: 1755-4519*, (Accepted).
2. Sunil Kumar K N and Dr. Shivashankar, “Compression of PPG Signal through Joint Technique of Auto-encoder and Feature Selection”, Journal of Health Care

Information Systems and Informatics-ACM-Digital Library, Vol. 16, Issue-4, Article-23, *ISSN:1555-3396, DOI:10.4018/IJHISI*.

3. Sunil Kumar K N and Dr. Shivashankar, "Bio-signals Compression Using Auto Encoder", Journal of Electrical and Computer Engineering (Q2 Indexed), Institute of Advanced Engineering and Science publishers, ISSN: 2088-8708, Vol.11, No.1, pp. 424-433, <http://doi.org/10.11591/ijece.v11i1.pp424-433>. 2021.
4. Sunil Kumar K N and Dr. Shivashankar, "Improving AODV Route Recovery Mechanism using PSO in WSN", Journal of Sensors, Wireless Communications and Control (Q4 Indexed), Bentham Science Publishers, ISSN: 2210-3287. Vol. 10, No. 10, <https://doi.org/10.2174/2210327909666191126110201>, 2020.
5. Sunil Kumar K N and Dr. Shivashankar, "Security Framework for Physiological Signals using Auto Encoder", Journal of Advanced Research in Dynamical and Control Systems-(Q3 Indexed), Vol. 12, 01-Special Issue, pp. 583-592, <https://doi.org/10.5373/jardcs/v12sp1/20201107>, 2020.

### **International Conference Publications:**

1. Sunil Kumar K N and Dr. Shivashankar, "A Review on Security and Privacy Issues in Wireless Sensor Networks", IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology: RTEICT, IEEE Xplore, *ISBN: 978-1-5090-3704- 9/17© 2017*.
2. Sunil Kumar K N and Dr. Shivashankar, "Efficient Search Estimation Video Compression Algorithm", International Conference on Communication and Signal Processing (ICCSP-2016), IEEE Xplore, *ISBN: 978-1- 5090-3704- 9/17© 2016*.
3. Sunil Kumar K N and Dr. Shivashankar, "Opportunistic Routing Technique for Minimized Energy Consumption for relay node selection in wireless sensor networks", IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology RTEICT, IEEE Xplore, *ISBN: 978-1-5090-3704- 9/17© 2017*.
4. Sunil Kumar K N, "A Wireless Sensor Network Based Precision Agriculture," 2020 International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), 2020, pp. 413-417, doi: 10.1109/RTEICT49044.2020.9315578.
5. K. Suni Kumar K N, Shivashankar, "Design And Implementation Of Smart Shopping Basket," 2020 International Conference on Recent Trends on Electronics,

- Information, Communication & Technology (RTEICT), 2020, pp. 287-291, doi: 10.1109/RTEICT49044.2020.9315702.
6. K. N. Sunil Kumar, "Design and Implementation of Vision Module for Visually Impaired People," 2020 International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), 2020, pp. 373-377, doi: 10.1109/RTEICT49044.2020.9315645.
  7. K. Sunil Kumar, "Design Of Led's For Interactive Court Lines," 2020 International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), 2020, pp. 383-387, doi: 10.1109/RTEICT49044.2020.9315667.
  8. K.N. Sunil Kumar, "IoT based Smart Water Quality Monitoring and Flow Control System," 2020 International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), 2020, pp. 358-362, doi: 10.1109/RTEICT49044.2020.9315670.
  9. S. Kumar KN, "Braille Assistance System for Visually Impaired, Blind & Deaf-Mute people in Indoor & Outdoor Application," 2019 4th International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), 2019, pp. 1505-1509, doi: 10.1109/RTEICT46194.2019.9016765.
  10. K. N. Sunil Kumar, "Intelligent Crop Monitoring and Protection System in Agricultural fields Using IoT," 2019 4th International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), 2019, pp. 1527-1531, doi: 10.1109/RTEICT46194.2019.9016770.
  11. K. N. Sunil Kumar, S. N. Raj, P. K. V, C. K. Vishnu Pavithran and V. Vishnupriya, "Auto And Manual Load Control System For Educational Institutions," 2018 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), 2018, pp. 2293-2297, doi: 10.1109/RTEICT42901.2018.9012595.
  12. K. N. Sunil Kumar and P. Rajendra Prasad, "Fully Automated PCB testing and analysis of SIM Module for Aircrafts," 2018 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), 2018, pp. 2016-2020, doi: 10.1109/RTEICT42901.2018.9012443.
  13. K. N. Sunil Kumar, "Intelligent traffic control system using GSM technology," 2017 IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI), 2017, pp. 830-834, doi: 10.1109/ICPCSI.2017.8391829.

14. K. N. Sunil Kumar, Shivashankar, , "An efficient routing algorithm based on ant colony optimisation for VANETs," 2016 IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), 2016, pp. 436-440, doi: 10.1109/RTEICT.2016.7807858.
15. K. N. Sunil Kumar , Shivashankar, and P. R. Prasad, "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 (RTEICT), 2016, pp. 720-723, doi: 10.1109/RTEICT.2016.7807918.
16. K. N. Sunil Kumar, B. V. Rakesh, S. Ahmed, M. R. Sharath, R. Ananthswamy and S. S. M. Saquaf, "Web based Wi-Fi automated soil moisture controller," 2017 2nd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), 2017, pp. 1178-1182, doi: 10.1109/RTEICT.2017.8256784.