

## **Dr. Dileep Reddy Bolla**

B.Tech, ME, PhD [LMISTE, LMIEI, LMIAENG, LMInSc, LMIMAPS]  
Associate Professor , Department of E&CE, SVCE, Bengaluru

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### **Biography**

Dr. Dileep Reddy Bolla has 12 years of experience in teaching and 06 Years of experience in research. He received B.Tech and M.E in Electronics & Communication Engineering from JNTU-Hyderabad, and completed his doctorate in VTU, Belagavi. His area of interest includes IoT, Machine Learning, Robotics, Wireless Communication, Cognitive Radio Networks.

To his credit prolifically published around 25+ papers in International journals and conferences. He is active and young researcher. He had received grant from AICTE, KSCST, and DST under various schemes. He is a Life member of ISTE, IEI, IAENG

He has Guided 20+ B.E Projects and 2 M.E Projects. He is also acting as AICTE and VTU Coordinator Member IQAC, Department Advisory Board (DAB), External Examiner for various autonomous institutions and universities.

He has been recognised by **Institute of Scholars** with Research Excellence Award .He has completed his research work with Focus on Wireless Ad Hoc & Cognitive Radio with the emphasis on design and analysis of Routing Protocols, Spectrum management Schemes to design and analysis of Cognitive Radio networks Routing under the esteemed guidance of Research Supervisor Dr. Shivashankar in the Year 2019 from Visveswaraya Technological University (VTU) , M.E in Embedded Systems (E&CE) in 2011, B.Tech in Electronics & Communication Engineering in 2009.

He Academically Excelled in achieving 100 % Results in Basic Electronics, ARM & Embedded Systems, Internet of Things and Wireless Sensor Networks, DSP Algorithms & Architecture, Computer Communication Networks and Digital Communications Etc.,

He has carried out research work and received funding from KSCST Project Fund Received for the Academic Year 2018-2019: SWACHH ROBO: One's Cleanliness Identity and for 2020-21 for Predicting Pressure Injury in Critical Care Patients using Deep Learning and Wearable sensor and also been a part of research activities related to AICTE, VTU, DST, Etc.,

He has published 25+ publications in various international journals and conferences like Inderscience, IEEE, Elsevier, ACM Etc., Received Best paper Award for paper Entitled "Wireless Monitoring of Prepaid Energy Meter" in Elsevier Science and Technology Publications, Bangalore India, further represented as Financial Co-Chair, Publicity Chair, Reviewer for the IEEE Conferences and active member of professional societies like Indian Society for Technical Education (ISTE), Associate Member of The Institution of Engineers (India) (IEI). International Association of Engineers (IAENGG ), Etc.,

He is Currently working on the insights of 5G & Internet of things, Machine learning, Advanced Embedded Systems and VLSI Design. Finally he is Flexible, Reliable and process Excellent time bounded, enthusiastic self-motivated, responsible person. He is a mature team worker and adoptable to challenging situations,

He is involved in several prestigious events like IEEE, Elsevier, ACM Conferences, workshops, seminars, faculty development programmes and student development programmes, having the ample leadership and learning qualities for the furtherance of academic and Research fraternity.

### **Research Interests [Heading –Times New Roman size – 14]**

- Cognitive Radio Networks
- Wireless Sensor Networks
- IoT
- Robotics
- Machine Learning

### **Selected Publications [Heading –Times New Roman size – 14]**

- Dileep Reddy Bolla** and Dr. 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.
- Dileep Reddy Bolla** and Dr. 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.
- Dileep Reddy Bolla** and Dr. Shivashankar, “**A Robust QSCTA-EDRA routing protocol for Cognitive Radio Sensor Networks**”, INDER SCIENCE SUBMISSION Journal: Int. J. of Communication Networks and Distributed Systems ISSN online 1754-3924. ISSN print 1754-3916 (SCOPUS INDEXED) .
- Dileep Reddy Bolla** and Dr. Shivashankar, “**Energy Efficient Protocol for Multi Hop Routing In Cognitive Radio Networks**”, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Vol. No.ume-7, Issue-6 ISSN: 2277-3878, pp-1476-1482, (SCOPUS INDEXED).
- Dileep Reddy Bolla** and Dr. Shivashankar, “**Real-Time Data Fusion Applications in Embedded Sensor Network using TATAS**”, Indian Journal of Science and Technology, Vol. No. 10(13), DOI: 10.17485/ijst/2017/v10i13/104550,(SCOPUS INDEXED).
- Dileep Reddy Bolla** and Dr. Shivashankar, “**An Energy Efficient spectrum Management in Cognitive Radio Networks (CRNS)**”, Journal of Advanced Research in Dynamical and Control Systems – JARDCS, ISSN-1943-023X (SCOPUS INDEX).

- g) **Dileep Reddy Bolla** and Dr. Shivashankar, “**An Energy Efficient Spectrum Aware Routing For Cognitive Radio Networks**”, Recent Advances in Computer Science and Communications (CSENG), (Bentham Science), ISSN: 1874-4796 (Online), ISSN: 2213-2759 (Print), (SCOPUS INDEXED) DOI : 10.2174/2666255813666191224091207
- h) **Dileep Reddy Bolla**, Asif Hassan<sup>1</sup>, Narendra Reddy P N Shashi Raj K “ **AN IRREDUNDANT POWER LINE DATA COMMUNICATION**” International Journal of Emerging Trends in Engineering and Development ISSN 2249-6149 pp: 502-511 Issue 3, Vol.2 (May 2013).
- i) **Dileep Reddy Bolla**, Asif Hassan<sup>1</sup>, Narendra Reddy P N Shashi Raj K :**GPS and GSM based Steered navigation and location tracking device for Visionless**”, IJSRD - International Journal for Scientific Research & Development, PP-1691-1693, ISSN (online): 2321-0613 Vol. 1, Issue 9, 2013.
- j) **Dileep Reddy Bolla**, Anand Vijay K M, Jijesh J J, Mahaveer Penna, Pramod M S, Satya Srikanth Palle “**An Energy Efficient Sophisticated Security System for Surveillance using Microcontroller,**” International Journal of Emerging Research in Management & Technology, pp-130-136, ISSN: 2278-9359 (Volume-6, Issue-2), February 2017.
- k) **Dileep Reddy Bolla** Mahaveer Penna, Satya Srikanth Palle, and Shivashankar “**USER CUSTOMIZED BOOTLOADER FOR PIC MICROCONTROLLER CARRYING OUT**”, Far East Journal of Electronics and Communications, DOI: <http://dx.doi.org/10.17654/EC017040889> PP 889-902 ISSN: 0973-7006, Volume 17, Number 4, 2017.
- l) **Dileep Reddy Bolla** Jijesh J.J , Mahaveer Penna , , Shivashankar , Satyasrikanth Palle “**Centralized framework for elegant hospital mechanization**” International Journal of Engineering & Technology, doi: 10.14419/ijet.v7i4.10675, pp 5281-5287, Article ID: 10675 ISSN 2227-524X. volume. 7, no. 4mar. 2019.
- m) **Dileep Reddy Bolla** “**Ring Laser Gyroscope**” Presented at Second International Conference on Networks, Information and Communications 2015(ICNIC 2015), SVCE, BANGALORE
- n) **Dileep Reddy Bolla** “**Data hiding by code word substitution in Encrypted H.264/AVC video Streams using Mat lab**” Presented at Second International Conference on Networks, Information and Communications 2015, SVCE, BANGALORE (ICNIC 2015)
- o) **Dileep Reddy Bolla** “**Design and Implementation of User defined Boot loader**” Presented at International Conference on Networks, Information and Communications 2015(ICNIC 2015), SVCE, BANGALORE.
- p) **Dileep Reddy Bolla** “**Wireless Monitoring of Prepaid Energy Meter**”, Proceedings of International Conference on Networks, Information and Communications, SVCE, BANGALORE, Elsevier Science and Technology Publications, ISBN: 9789351072607, pp: 33-39, 10-12, July 2014.

- q) **Dileep Reddy Bolla “An Enhanced Collision Avoidance Back-off mechanism for Wireless Mobile Adhoc networks ”** Proceedings of International Conference on Networks, Information and Communications, SVCE, BANGALORE, Elsevier Science and Technology Publications, ISBN: 9789351072607, pp:64-67-, 10-12, July 2014.
- r) **Dileep Reddy Bolla “Automated Car management System for Improved road Safety”** Proceedings of International Conference on Networks, Information and Communications, SVCE, BANGALORE, Elsevier Science and Technology Publications, ISBN: 9789351072607, pp: 372-375, 10-12, July 2014.
- s) **Dileep Reddy Bolla “Android based ECG monitoring system”**, Presented in Udyukta 2015, Held on 25th and 26th march 2015 at SVCE, Bangalore.
- t) **Dileep Reddy Bolla “Introduction to Nano robots and its application in medical fields”** , Presented in Udyukta 2015, Held on 25th and 26th march 2015 at SVCE, Bangalore.
- u) **Dileep Reddy Bolla “Automatic Toll Collection System Using Rfid”** International Journal of Computer Science and Mobile Computing *IJCSMC*, Vol. 5, Issue. 8, August 2016, pg.247 – 253, ISSN 2320–088X
- v) **Dileep Reddy Bolla A Method For The Personal Safety In Real Scenario** 2016 International Conference on Computational Systems and Information Systems for Sustainable Solutions pp-440-444 , 978-1-5090-1022-6/16/\$31.00 ©2016 IEEE.
- w) **Dileep Reddy Bolla “A Survey on various routing protocols in Cognitive Radio Networks”** in ACM SPONSORED - International Conference Proceedings Series (ICPS) ,ICC 2017,22-23 March 2017, Cambridge city, Churchill College ,University of Cambridge, United Kingdom with ISBN number 978-1-4503-4774-7
- x) **Dileep Reddy Bolla** "An Innovative Smart Railway Platform Assist in Domestic Railway Stations," 2018 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), Bangalore, India, 2018, pp. 2608-2612, doi: 10.1109/RTEICT42901.2018.9012272.
- y) **Dileep Reddy Bolla** and Shivashankar, "An efficient protocol for reducing channel interference and access delay in CRNs," 2017 2nd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), Bangalore, 2017, pp. 2247-2251, doi: 10.1109/RTEICT.2017.8257000.
- z) **Dileep Reddy Bolla** "Reconfiguring CPLD to perform operations based on sequence detection condition," 2016 IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), Bangalore, 2016, pp. 554-558, doi: 10.1109/RTEICT.2016.7807883.

- aa) **Dileep Reddy Bolla** "Secured Transportation System To Enhance Child Safety," 2018 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), Bangalore, India, 2018, pp. 2314-2318, doi: 10.1109/RTEICT42901.2018.9012099.
- bb) **Dileep Reddy Bolla** "Voice enabled gadget assistance system for physically challenged and old age people," 2017 2nd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), Bangalore, 2017, pp. 2081-2085, doi: 10.1109/RTEICT.2017.8256966.
- cc) **Dileep Reddy Bolla** "LI-FI TECHNOLOGY BASED AUDIO AND TEXT TRANSMISSION," 2019 4th International Conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), Bangalore, India, 2019, pp. 1532-1537, doi: 10.1109/RTEICT46194.2019.9016856.