

Dr. Shivashankar

Dr. Shivashankar has a career spanning over sixteen 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 41 Technical Papers in International Journals / National / International Conferences/ Seminars in the last 5 years. He is at present guiding 6 students pursuing the **Doctoral Program** at Visvesvaraya Technological University, Belgaum. Presently working as Professor and Head of the Department, Electronics and Communication Engineering, SVCE, Bangalore.



Name:	Dr. SHIVASHANKAR
Father's Name:	NARASIMHIAH
Date of Birth:	21-02-1979
Address:	
Residence: #70/3, Maruthi Nagar, Nagarabhavi Main Road, Bangalore - 560 072 Ph: 9844759456 e-mail: Chenduss123@gmail.com	Office: Professor and H.O.D. Electronics and Communication Sri Venkateshwara College of Engineering Vidyanagar, Bangalore - 562 157 Mob: 9844759456
Qualification:	B.E (E&C), M.Tech. (CNE), Ph.D. (Wireless Communication)

Details of Educational Qualification :

Degree	Year	Institution	University	Specialization	Result
Ph.D.	2014	Bangalore Institute of Technology, Bangalore.	V.T.U.	Wireless Communication	Awarded 2014
M.Tech.	2005	A.I.T.	V.T.U.	Computer Networking	FCD (78.0%)
B.E.	2000	P.E.S.C.E., Mandya.	Mysore	Electronics and Communication	FC (66.0%)

Teaching Experience:

Institution	Duration	Designation
SRM Radiant Info-tech Ltd., Mysore.	01- 07 – 2000 to 31 – 03 – 2001	Faculty (Trainer)
A.I.T. Bangalore.	14 – 05 - 2001to 20 – 08 – 2006	Lecturer
A.I.T. Bangalore.	21/08/2006 to 31 – 03 – 2012	Assistant Professor
A.I.T. Bangalore.	01 – 04 – 2012 to 28 - 06 – 2014	Associate Professor
Sri Venkateshwara College of Engineering, Bangalore.	1 – 07 – 2014 to on date	Professor & H.O.D

Publications:	<ol style="list-style-type: none">1. International Journals : 152. International Conferences : 233. National Conferences : 134. National Seminars : 235. Invited Lectures : 01
Ph.D. Guiding	8 – Research Scholars Pursuing Under VTU
Professional Bodies Memberships:	<ol style="list-style-type: none">1. IEEE (Computer Society of India)-926227562. MIET3. IEI – AM166196194. MISTE5. Cryptology Research Society of India (L/0349)
Research & Development	Focus on Wireless Ad Hoc & Sensor Networks and Cognitive Radio with emphasis on Design & Analysis of MAC and Routing Protocols. Cross Layer Design and Cooperative Diversity Schemes to Design & Analysis of MAC and Routing Protocols
Whether Examiner / Paper Setter / Valuer of any University :	Paper Setter, Practical Examiner & Theory Paper Valuator of V.T.U. B.O.E and B.O.S
Subjects Taught :	<ol style="list-style-type: none">1. Digital Signal Processing2. Control System3. Logic Design4. Computer Networks5. Advanced Embedded Systems

	<ol style="list-style-type: none"> 6. Wireless Communication 7. Data structure with Object Oriented Programs 8. Microcontroller 9. Adhoc Networks 10. Digital Image Processing 																		
Practical Handled :	<ol style="list-style-type: none"> 1. Digital Signal Processing Lab 2. Logic Design Lab 3. Data structure with Object Oriented Programs Lab 4. Microcontroller Lab 5. C programming Lab 6. Digital Image Processing Lab 																		
References :	<ol style="list-style-type: none"> 1. Dr. T.S.Indumathi Professor and P.G. Co-ordinator VTU, Muddenahalli. Bangalore Region. 2. Dr. Varaprasad. G, Professor, Department of Computer Science Engineering, B.M.S.C.E. Bangalore. 3. Dr. C. Krishna Mohan , Professor and H.O.D., Department of Computer Science, IIT, Hyderabad, Andhra Pradesh. 																		
Research Scholars (Under VTU) And Status	<table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Name of Research Scholar</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Mr. Jijesh J J</td> <td>Comprehensive – Viva-Voce Completed</td> </tr> <tr> <td>2</td> <td>Mr. Pramod M S</td> <td>Comprehensive – Viva-Voce Completed</td> </tr> <tr> <td>3</td> <td>Mr. Sunil Kumar N</td> <td>Course Work Pending</td> </tr> <tr> <td>4</td> <td>Mr. Rajendra Prasad</td> <td>Course Work Pending</td> </tr> <tr> <td>5</td> <td>Mr. Ravi Gatti</td> <td>Course Work Pending</td> </tr> </tbody> </table>	Sl. No.	Name of Research Scholar	Status	1	Mr. Jijesh J J	Comprehensive – Viva-Voce Completed	2	Mr. Pramod M S	Comprehensive – Viva-Voce Completed	3	Mr. Sunil Kumar N	Course Work Pending	4	Mr. Rajendra Prasad	Course Work Pending	5	Mr. Ravi Gatti	Course Work Pending
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4	Mr. Rajendra Prasad	Course Work Pending																	
5	Mr. Ravi Gatti	Course Work Pending																	

Personal Achievements / Credentials:

- **General Chair in 2016 IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), SVCE, Bangalore.**

Institute Services:

- Member – Interdisciplinary Research Committee
- Coordinator, TEQIP-II,
- Member, Board of Studies (BOS),
- Member, Board of Examiners, (BOE),
- Mentor
- RPRC coordinator
- Workshop/FDP/Conference coordinator
- NBA Co-ordinator

Name of the Conferences / workshops /Short Term Courses Organized

- **Convener for 2016 IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT)**
- **Conveyor - FDP on Introduction to virtual instrumentation tool kits – 2010**
- **Conveyor - National Conference on Wireless Control and Communication Technology – 2011**
- **Organizer - Workshop on Introduction to Python Programming - 2013**
- **Chief Co-ordinator and Organizer – 2nd International Conference on Networking, Information & Communications-2015 (ICNIC 2015) from 18th - 20th May 2015 at Sri Venkateshwara College of Engineering, Bengaluru.**
- **Co-ordinator and Organizer for *One Week Faculty Development Programme on “Recent and Advanced Research work on Wireless Communication using C++ and Building TCL Scripts in NS-2/3”*, from 20th to 25th of July 2015.**
- **Conducted IEEE Sponsored Workshop on Half-day seminar on “Recent Technologies and Applications in Micro-Opto-Electro-Mechanical System (MOEMS)”, 28th September, 2015.**
- **Conducted IEEE FDP on Recent Issues and Developments in Wireless and Optical Fiber Communication”, 14th and 16th January 2016**
- **Conducted “Workshop on Intellectual property Rights-IPR” under KSCST-Govt. of**

Karnataka. 6th April-2016.

- Conducted “Udyukta Tech Fest-2016” as a Chief Co-ordinator on 2nd April-2016.
- Co-ordinator and organizer for **Interactive Practical oriented 2-Day’s workshop on “Advanced MATLAB and Simulink Interfacing with Embedded System”** on 10th & 11th August , 2016
- Co-ordinator and organizer for **Interactive Practical oriented 2-Day’s workshop on “Robotics and Its Applications”** on 23rd & 24th September, 2016
- Co-ordinator and organizer for **Faculty Training Program and Workshop on “Signal Processing and Communication System using MATLAB and Simulink”** under IEEE, on 28th &29th September, 2016
- Co-ordinator and organizer for **One day practical oriented software training program on “C, C++ and embedded C”** on 4th October 2016
- Co-ordinator and organizer for **One day interactive practical oriented workshop on “ Analog and Digital circuit design”** on 19th October 2016

PUBLICATIONS:

INTERNATIONAL JOURNALS

- [1] **Shivashankar**, Dr. H.N.Suresh and Dr.G.Varaprasad, “Implementing a New Power Aware Routing Algorithm Based on Existing DSR Protocol for MANETs”, *IET Networks*, ISSN: 2047 - 4954, pp. 137 - 142, DOI: 10.1049/iet-net.2013.0050, Vol. 3, ISSUE 2, H Index: 1, June 2014.
- [2] **Shivashankar**, Dr. H.N.Suresh and Dr.G.Varaprasad, “Importance of On-Demand Modified Power Aware DSR Protocol in MANETs”, *IEEE Microwaves, Antennas and Propagation, Special Issue on RF Energy Harvesting and Wireless Power Transfer for Autonomous Sensors*, ISSN 1751-8733, DOI: 10.1049/iet-map.2013.0230, Vol. 8, ISSUE 7, Impact Factor: 0.681. pp.459-464, 2013.
- [3] **Shivashankar**, Dr. H.N.Suresh and Dr.G.Varaprasad, “Performance Comparison of New Efficient Routing Protocol with Existing Protocols”, *International Journal of Advances in Engineering and Emerging Technology*, Emerging Research Library, Vol. 3, No. 1, pp. 338 - 345, Impact Factor: 0.078. 2013.
- [4] **Shivashankar**, Dr. H.N.Suresh and Dr.G.Varaprasad, “Designing An Efficient Routing Protocol In MANETs”, *International Journal of Wireless and Mobile Networking, Academic Research and Publication Center*, Vol. 1, No. 1, pp. 25 - 34, November - 2013.
- [5] **Shivashankar**, Dr. H.N.Suresh and Dr.G.Varaprasad, “Design of Novel Protocol to Increase Network lifetime in MANETs”, *International Journal of Advanced Research in Computer and Communication Engineering*, Vol. 2, No. 10, pp. 3974 - 3979, October-2013.

- [6] **Shivashankar**, Dr. H.N.Suresh and Dr.G.Varaprasad, “Performance Metrics Evaluation of Routing Protocols in MANETs”, *International Journal of Advanced Research in Computer and Communication Engineering*, Vol. 2, No. 3, pp. 1513 - 1521, March - 2013.
- [7] **Shivashankar** and Dr.G.Varaprasad, “Identification of Critical Node for the Efficient Performance in MANET”, *International Journal of Advanced Computer Science and Application*, Vol. 3, No. 3, pp. 166 - 171, 2012.
- [8] **Shivashankar** and Dr.G.Varaprasad, “Implementing a New Algorithm for Analysis of Protocol Efficiency using Stability and Delay Tradeoff in MANET”, *International Journal of Computers and Technology (Mobile and Ubiquitous Computing)*, Vol. 2, No. 3, pp. 11 - 17, 2012.
- [9] **Shivashankar** and Dr.G.Varaprasad, “Study of Routing Protocols for Minimizing Energy Consumption Using Minimum Hop Strategy in MANETS”, *International Journal of Computing communication and Network Research*, Vol. 1, No. 3, pp. 10 - 21, 2012.
- [10] **Shivashankar** and Dr.G.Varaprasad, “Implementing Energy Aware Issues in MANET by Designing Efficient Routing Protocol”, *International Journal of Computer Applications*, Vol. 6, No. 9, pp. 20 - 26, 2012.
- [11] **Shivashankar** and Dr.G.Varaprasad, “Improving of TCP Performance Evaluation in Mobile Ad Hoc Networks”, *International Journal of Intelligent System Research*, ISSN: 0975 - 6205, Vol. 5, No. 1, pp. 69 - 81, 2011
- [12] **Shivashankar and Pramod**, “Performance analysis of EEDR routing protocol for WSN”, *IET Journal of Wireless Sensor Systems*, DOI: 10.1049/iet-wss.2016.0029 , Online ISSN 2043-6394, 2016.
- [13] **Shivashankar**, “Improvement of Battery Lifetime of Mobility Devices using Efficient Routing Algorithm” , *IET Networks*, Online ISSN 2056-4007, Manuscript ID: NET-SI-2016-0021.
- [14] **Shivashankar**, “Channel quality based receiver initiated routing protocol for WSNs”, *IET Journal of Wireless Sensor Systems*, DOI: 10.1049/iet-wss.2016.0029 , Online ISSN 2043-6394, 2016.
- [15] **Shivashankar and Jijesh J J**, “Energy Efficient Routing Protocol Based On DSR”, *International Journal of Ad hoc, Sensor & Ubiquitous Computing*, ISSN: 0976 – 1764, DOI : 10.5121/ijasuc.2016.7501, Vol.7, No.5, pp.1-12, October 2016.

[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.
- [4] **Shivashankar** “An Efficient Mobile Sink Path Selection Approach 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 – 151-155.
- [5] **Shivashankar** “ An Efficient Routing Algorithm based on Ant Colony Optimization for VANETs”, 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 – 436-440.
- [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.
- [7] **Shivashankar** “Optimization Of Motorcycle Pitch With Non Linear Control”, 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 – 1656-1660.
- [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.
- [9] **Shivashankar** “Development of Agile Frequency Synthesizer.”, 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 – 1943-1945.
- [10] **Shivashankar** “Opportunistic Routing Technique for Minimized Energy Consumption for relay node selection in wireless sensor networks.”, 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 – 2093-2097.

- [11] **Shivashankar**, Dr. H.N.Suresh and Dr.G.Varaprasad, "Implementing a Power Aware QoS Constraints Routing Protocol", *Proceedings of 4th IEEE International Conference on Computing, Communications and Networking Technologies*, Vivekananda College of Engineering, Tamilnadu, India, pp. 14 - 20, 2013. (Published in IEEE Xplore).
- [12] **Shivashankar** and Dr.G.Varaprasad, "Object Tracking System Using New Background Subtraction and Gaussian Disruption Thro Wireless Commutation Protocols", *Proceedings of International Conference on Engineering Science and Technology*, 7th and 8th, April, Chennai, pp. 32 - 36, 2011.
- [13] **Shivashankar** and Dr.G.Varaprasad, "Developing Advanced Algorithm on Public Validation Key for DNS Security System", *Proceedings of International Conference on Engineering Science and Technology*, 7th and 8th, April, Chennai, pp. 12 - 15, 2011.
- [14] **Shivashankar** and Dr.G.Varaprasad, "Vehicle Speed Monitoring and Annunciation System Using Adhoc Network", *Proceedings on International Conference on Control System and Communication*, 3rd and 4th, November, Manipal, pp. 23 - 26, 2011.
- [15] **Shivashankar** and Savita S, "Demand Response Home Energy Management System for Efficient use of Power", *Proceedings of Second International Conference on Networking, Information & Communication-2015(ICNIC-2015)*.
- [16] **Shivashankar**, "Cloud Based Anti-Vehicle Theft Using Number Plate Recognition", *Proceedings of Second International Conference on Networking, Information & Communication-2015(ICNIC-2015)*.
- [17] **Shivashankar**, "Verification of SPI-AMBA AHB sub-system using System Verilog", *Proceedings of Second International Conference on Networking, Information & Communication-2015(ICNIC-2015)*.
- [18] **Shivashankar**, "A preventive measure to overcome wormhole attack in MANETs using route variation technique", *Proceedings of Second International Conference on Networking, Information & Communication-2015(ICNIC-2015)*.
- [19] **Shivashankar**, "Healthcare Monitoring System Using Wireless Sensor Networks", *Proceedings of Second International Conference on Networking, Information & Communication-2015(ICNIC-2015)*.
- [20] **Shivashankar**, "Vehicle Accident Monitoring System", *Proceedings of Second International Conference on Networking, Information & Communication-2015(ICNIC-2015)*.
- [21] **Shivashankar**, "VLSI Efficient Search Estimation Video Compression Algorithm", 5th IEEE International Conference on Communication and Signal Processing - 2016, Tamilnadu.

- [22] **Shivashankar and Jijesh**, “A Survey on Wireless body sensor networks routing protocols classification’, IEEE sponsored 3rd International conference on Electronics and Communication systems, 25th and 26th Feb., 2016.
- [23] **Shivashankar and Pramod**, “Random node deployment and route establishment in receiver based routing protocol for WSNs “, IEEE conference, under review, 2016.

NATIONAL CONFERENCE PUBLICATIONS

- [1] **Shivashankar**, Dr. H.N.Suresh and Dr G. Varaprasad, “Power Consumption Control in MANETs”, *2nd Conference on Computational Control Systems and Optimization*, Dr. AIT, Bangalore, pp. 76 - 83, 2013.
- [2] **Shivashankar** and Dr. G. Varaprasad, “Implementation of Wireless Automation and Control Through RF Technology”, *Proceedings on National Conference on Emergency Trends in IT*, 17th - 18th, July, Bangalore, pp. 71 - 74, 2011.
- [3] **Shivashankar** and Dr. G. Varaprasad, “Bandwidth Constraint in MANET”, *Proceedings on National Conference on Wireless Communication and Technology*, 27th and 28th, April, Bangalore, pp. 14 - 18, 2011.
- [4] **Shivashankar** and Dr. G. Varaprasad, “Multi functioning in ROBOT”, *Proceedings on National Conference on Wireless Communication and Technology*, 27th and 28th, April, Bangalore, pp. 53 - 56, 2011.
- [5] **Shivashankar** and Dr. G. Varaprasad, “Design and Implication of Mars Rover Thro Wireless Control System”, *Proceedings on National Conference in Emergency Trends in Engineering and Science*, 6th August, Bangalore, pp. 7 - 11, 2010.

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