

FACULTY PROFILE

Name : Dr. Ashok V. Sutagundar



Designation : Associate Professor
Department : Electronics and Communication Engineering
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Orcid ID : 0000-0003-1494-7150
Scopus ID : 20434507700
Vidwan Id : 125082
Researcher ID (Web of Science) : AAC-6806-2019
Google Scholar ID : n1cpsDkAAAAJ

Qualification : B.E., M.Tech., PhD

Professional Experience

Teaching experience : 17

Industry experience : 00

Administrative Responsibilities : 1. Hostel Warden
2. Co-ordinator for BEC-Bosch Rexroth Center for Industrial Automation
3. Industry Institute Interaction Coordinator

Teaching

No. of Projects Guided

UG : 43

PG : 30

Research

Interest Area : 1. Wireless Networks
2. Adhoc Networks
3. Wireless Sensor Networks
4. Cloud Computing
5. Image Processing
6. Multimedia Networks

No. of Research Scholars

Pursuing : 01

Awarded : 04

Patents : --

Research Grants

- : 1. AICTE grant for the project under RPS “Resource Management in Internet of Things”, 2016-2019.
- 2. Visvesvaraya Technological University gant (Rs. 14.58 lakhs) for project under RPS Scheme “Cognitive agent based information fusion in wireless sensor networks”, 2010- 2013

Publications

Books/Chapters

- : 1. Padmaja Kuruba, Ashok V. Sutagundar, “Emerging Trends of Space Based Wireless Sensor Network and Its Applications”, Handbook of Research on Wireless Sensor Network Trends, Technologies, and Applications PP.35-57, 2016.
- 2. Ashok V. Sutagundar, Daneshwari Hatti, “Data Management in Internet of Things”, Handbook of Research on Wireless Sensor Network Trends, Technologies, and Applications PP.80-97, 2016.
- 3. B. S. Halkarnimath, Ashok V. Sutagundar, “A Review on Localization Techniques in Underwater Acoustic Sensor Networks (UASN)”, Handbook of Research on Wireless Sensor Network Trends, Technologies, and Applications PP.98-119, 2016.
- 4. Prashant Sangulagi , Ashok Sutagundar, “Resource Management Sensor Cloud”, Advancing Cloud Database Systems and Capacity Planning With Dynamic Applications, pp.158-175, 2017.
- 5. Tabssum N. Mujawar, Ashok Sutagundar , “Security Aspects in Cloud Computing”, Advancing Cloud Database Systems and Capacity Planning With Dynamic Applications, pp.320-342, 2017.
- 6. Kittali, Rashmi M. and Ashok V. Sutagundar. "Spectrum Sensing and Identification Techniques of Cognitive Radio Networks" Sensing Techniques for Next Generation Cognitive Radio Networks. IGI Global, 2019. 189-202. Web. 23 Aug. 2018. doi:10.4018/978-1-5225-5354-0.ch011 accessed August 23, 2018.
- 7. Daneshwari Hatti, Ashok V. Sutagundar,” Authentication of devices in IoT”, IoT Security and Privacy Paradigm CRC Press, Taylor & Francis Group, June 2020
- 8. Daneshwari Hatti, Ashok Sutagundar, “, “Swarm Intelligence based Resource Provisioning Optimization in IoT” for the Book title “Recent Trends in Computational Intelligence Enabled Research”, Elsevier. (In Press)
- 9. Prashant Sangulagi, Ashok V. Sutagundar, “Theoretical machine learning models for predicting pandemic diseases in sensor cloud”, Book Chapter in Intelligent Interactive Multimedia Systems for e-Healthcare Applications July 2020.

Journals (with citations): **Articles published in Journals**

- 1. B. S. Halakarnimath, A. V. Sutagundar, “Reinforcement Learning-Based Routing in Underwater Acoustic Sensor Networks”, Wireless Personal Communications, 2021
- 2. B. S. Halakarnimath, A. V. Sutagundar,”Location Estimation of Nodes in Underwater Acoustic Sensor Networks”, Journal of Telecommunications and Information Technology, Vol. 1 2021
- 3. Prashant Sangulagi, Ashok V. Sutagundar, “Fuzzy based Load Balancing in Sensor Cloud: Multi-agent approach” Wireless Personal Communications (Springer) Vol. 17, No. 2, 2021, pp.1685–1710.
- 4. Ashok Sutagundar, Prashant Sangulagi,” Fog computing based information classification in sensor cloud-agent approach,Expert Systems with Applications”, Vol. 182, 2021, DOI: <https://doi.org/10.1016/j.eswa.2021.115232>.
- 5. B. S. Halakarnimath, A. V. Sutagundar, “Multi-agent-based

- acoustic sensor node deployment in underwater acoustic wireless sensor networks”, *Journal of Information Technology Research*, 2020, Vol. 13, No. 4, pp. 136–155
6. Prashant Sangulagi, Ashok. V. Sutagundar, “Agent based improved Neuro-Fuzzy for Load Balancing in Sensor Cloud” *International Journal of Energy Optimization and Engineering (IJEEO)*, Vol. 10, No. 1, 2020, IGI Global
 7. B. S. Halakarnimath, A. V. Sutagundar. ”Localization in Underwater Acoustic Sensor Networks using Trapezoid,” *International Journal of Recent Technology & Engineering*, Vol. 8, No.5 (Jan. 2020), pp. 186-193. DOI: <https://doi.org/10.35940/ijrte.E5695.018520>, ISSN: 2277-3878.
 8. Ashok. V. Sutagundar, Bhanu K. N. Vidya S Bennur “Agent Based Spider-Net Information Gathering in Wireless Sensor Networks” *Wireless Personal Communications*, 2021
 9. Prashant Sangulagi, Ashok V. Sutagundar, “Fuzzy based Load Balancing in Sensor Cloud: Multi-agent approach”, *Wireless Personal Communications (Springer)* 2020, DOI:<https://doi.org/10.1007/s11277-020-07941-8>
 10. B. S. Halakarnimath, A. V. Sutagundar. ”Multi-agent based Acoustic Sensor Node Deployment in Underwater Acoustic Sensor Networks” in *Journal of Information Technology Research*, Vol. 13, No.4 (October 2020), pp.136-155 , DOI: 10.4018/JITR.2020100109
 11. Prashant Sangulagi, Ashok. V. Sutagundar, “Agent based improved Neuro-Fuzzy for Load Balancing in Sensor Cloud” *International Journal of Energy Optimization and Engineering (IJEEO)*, Volume 10, issue 1, 2020, IGI Global
 12. B. S. Halakarnimath, A. V. Sutagundar. ”Localization in Underwater Acoustic Sensor Networks using Trapezoid,” *International Journal of Recent Technology & Engineering*, Vol. 8 No. 5 (Jan. 2020), pp. 186- 193. DOI: <https://doi.org/10.35940/ijrte.E5695.018520>, ISSN: 2277- 3878.
 13. Prashant Sangulagi, Ashok V Sutagundar, Tabrunisa Abdul Rashid, ”Network Lifetime Optimization in Sensor Cloud”, *Int. J. Advanced Networking and Applications*, Vol.11, No.2, pp. 4198-4204, 2019
 14. Ashok V. sutagundar, Ameenabegum Attar, Daneshwari I. Hatti, “Resource Allocation For Fog Enhanced Vehicular Services”, *Springer Wireless Communication* DOI: 10.1007/s11277-018-6094-6, online published: 15th December, 2018.
 15. Ashok V. sutagundar, Daneshwari I. Hatti, “ Nature Inspired Computing for Wireless Networks Applications: A Survey”, *IGI Global International Journal of Applied Evolutionary Computation (IJAEC)*, Vol. 10, No. 1, Jan- March, 2019. DOI: 10.4018/IJAEC.2019010101
 16. Prashant Sangulagi, A. V. Sutagundar “Agent based Resource Management in Sensor Cloud”, *Journal of Emerging Technologies and Innovative Research*, Vol. 5, No. 8 pp.331-336, August 2018.
 17. Ashok V. sutagundar Jyothi Sutar, “Automation of Heating,

Bending, Cutting of Glass Tubes using PLC”, ”, Indian Journal of Scientific and Research, Vol.17. No. 2, 2018

18. Prashant Sangulagi, A. V. Sutagundar, “Storage of Mobile Sensor Data in Clouds using Information Classification Algorithms”, International Journal of Advanced Networking and Applications, PP. 3893-3897, Vol. 10 No. 03, September 2018.
19. Sangeeta B Shahapur , Ashok Sutagundar, “ PLC based Automatic Drinking Water Supply System for Public Service”, Indian Journal of Scientific and Research Vol. 17, No. 2, pp. 164-166, 2018.
20. M. N. Birje, Arun A. Kumbi, Ashok V. Sutagundar, “Internet of Things: A Survey of Architecture, Requirements and applications”, International Journal of Hyper Connectivity and Internet of Things, Vol.1, No.1, pp.45-71, July-Dec. 2017.
21. Ashok V. Sutagundar, Padmaja Kuruba, Mahantesh N. Birje, “Inter-Orbital Cluster Formation and Routing in Satellite Sensor Network”, Internet of Things and Cloud Computing. Special Issue: Advances in Cloud and Internet of Things. Vol. 5, No. 5-1, 2017, pp. 38- 47. doi: 10.11648/j.iotcc.s.2017050501.16
22. Padmaja Kuruba, Ashok V. Sutagundar, “Space Based Wireless Sensor Network: A Survey”, Internet of Things and Cloud Computing. Special Issue:Advances in Cloud and Internet of Things. Vol. 5, No. 5-1, 2017, pp. 19-29. doi: 10.11648/j.iotcc.s.2017050501.14
23. R. M. Kittali, Ashok Sutagundar “Automation of Waste Segregation System using PLC”, IJET: International Journal on Emerging Technologies vol. 7, No. 2, pp. 265-268, 2016.
24. Vidya S Bennur, Sadashiv S Shirabur, Ashok V Sutagundar,”Multiagent based multipath routing in wireless sensor networks”, International Journal of Wireless & Mobile Networks, Vol. 6, No. 2 , 2014.
25. Anusha A M, A. V. Sutagundar, “Data Gathering in IOT: Cooja Simulation”, International Journal of Engineering Research in Electronic and Communication Engineering (IJERECE) Vol 3, No. 5, pp. 357-360, May 2016.
26. A.V. Sutagundar, Ravikanth Belagali, Padmaja Kuruba, “ Development of Image Surveillance System using Android”, International Journal of Engineering Research in Electronic and Communication Engineering (IJERECE) Vol 3, No. 5, May 2016, pp. 38- 47.
27. A M Anusha and Ashok V. Sutagundar, “Design of a PLC Based Elevator Control System”, International Journal on Emerging Technologies (Special Issue on NCRIET-2015) Vol. 6, No. 2 pp. 32-36, 2015.
28. Ravikanth Belagali, S. H. Managala, A.V. Sutagundar, “PLC Based Automated Clinker Cooling System for Cement Manufacturing Industry”, International Journal on Emerging Technologies (Special Issue on NCRIET-2015) Vol. 6, No.2, pp. 42-47, 2015.
29. Prashant Sangulagi, Shilpa Patne and A. V. Sutagundar, “A New Approach for Energy Efficient Routing and Aggregation in

Wireless Sensor Network”, International Journal on Emerging Technologies (Special Issue on NCRIET-2015) Vol. 6, No.2, pp. 320- 326, 2015.

30. A.V. Sutagundar, S. S, Manvi,”Wheel based Event Triggered Data Aggregation and Routing in Wireless Sensor Network: Multiagent based Approach”, Springer Journal Wireless Personal Communications, Vol. 70, No.1, pp. 491-517, 2013.
31. A.V. Sutagundar, S. S, Manvi, ‘’ Fish Bone Structure based Data Aggregation and Routing in Wireless Sensor Network: Multi-agent based Approach’’, Springer Journal of Telecommunication systems, Vol.56, No.4, pp.493-508 February, 2014.
32. Ajit K. Bhovi, A. V. Sutagundar, S. S. Manvi, B. S. Halakarnimath, ‘’Tree Based Aggregation and Routing in WSN: A Multi-agent system Approach’’, International Journal of Computer Science and Informatics (IJCSI), Vol.1, No.3, pp. 2231 –5292, 2012.
33. Prashant Sangulagi, AV Sutagundar, SS Manvi, Vidya S Bennur. “BDI Agents for Information Fusion in Wireless Sensor Networks”, International Journal of Advanced Research in Computer Engineering & Technology, Vol.1, No.7, 2012.
34. Prashant Sangulagi, A. V. Sutagundar, S. S. Manvi, B. S. Halakarnimath, ‘’ Angle based Aggregation and Routing in WSN: Multi-Agent approach’’, International Journal of Smart Sensors and Ad Hoc Networks (IJSSAN) Vol.1, No.3, 2012.
35. A.V. Sutagundar, S. S., Manvi, “Context Aware Image Fusion in Military Sensor Networks: Multiagent System Approach’’, International Journal of Ad hoc, Sensor & Ubiquitous Computing (IJASUC), Vol. 2, No.1,pp.147-167, March 2011.
36. A. V. Sutagundar, S.S. Manvi, "Energy Efficient Multipath Routing Protocol for WMSN's" International Journal of computer and Electrical Engineering, Vol. 2 No. 3 pp. 503 – 210, June 2010.
37. Rajendra Math, A.V. Sutagundar, S. S. Manvi, “Analysis of automatic music genre classification system”, International Journal of Computer Science and Information Security, Vol. 2, No. 1, June 2009.
38. Sandeep Kugali, S. S. Manvi, A. V. Sutagundar, “Design and development of bandwidth requirement characterization tool for MPEG2 files”, Vol. 2, No. 1, International Journal of Computer Science and Information Security, June 2009.

Conferences

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1. Daneshwari Modi, Ashok V Sutagundar, Vijayalaxmi Yalavigi, Anupama Aravatagimath, “Crop Recommendation Using Machine Learning Algorithm”, 2021 5th International Conference on Information Systems and Computer Networks (ISCON), doi: [10.1109/ISCON52037.2021.9702392](https://doi.org/10.1109/ISCON52037.2021.9702392)
2. Anupama Aravatagimath, Ashok V Sutagundar, Vijayalaxmi Yalavigi, “Agriculture Product Marketing Data Analysis using Machine Learning”, 2021 International Conference on Forensics,

Analytics, Big Data, Security (FABS), Vol. 1 pp. 1-6, 2021

3. Hatti, Daneshwari I. and A. V., Sutagundar, “**Resource Aware Flow Control in IoT**” Proceedings of International Conference on Recent Trends in Computing, Communication & Networking Technologies (ICRTCCNT) 2019, July 31, 2019.
4. Ashok V Sutagundar, Prashant Sangulagi, Somashekhar B. Sajjan , “**Resource prediction algorithm for IOT devices**”, International Conference on Recent Trends in Computing, Communication and Networking Technologies (ICRTCCNT’19), Oct 18-19, 2019, Chennai, TamilNadu, India
5. Ashok Sutagundar, Farahat. Vidya S. Bennur, “**Multi-agent Based Topology Control in Wireless Sensor Network**”, *Proceedings of International Conference on Recent Trends in Computing, Communication & Networking Technologies (ICRTCCNT) 2019*, Oct 18-19, 2019, Chennai, TamilNadu, India
6. Daneshwari I. Hatti and Ashok V. Sutagundar , “**Trust Induced Resource Provisioning (TIRP) Mechanism in IoT**”, 4thInternational Conference on Computer, Communication and Signal Processing (ICCCSP 2020),SSN College of Engineering, Chennai, India.
7. Prashant Sangulagi, A. V. Sutagundar, “**Agent based Load Balancing in Sensor Cloud**”, IEEE 5th International Conference on Inventive Computational Technologies (ICICT-2020), RVS technical campus, Feb 26-28 2020.
8. Prashant Sangulagi, A. V. Sutagundar, “**Agent based Load optimization in Sensor Cloud**”, IEEE 2020 International Conference on Emerging Trends in Information Technology and Engineering (ic-ETITE), VIT Vellore, Feb 24-25 2020.
9. A. V. Sutagundar, B. S. Halakarnimath. ”**Sensor Node Deployment in Underwater Acoustic Sensor Networks**” In: International Conference on Inventive Systems and Control (ICISC 2020). Jan. 2020, pp. 251-256. DOI:<https://doi.org>. (In press).
10. Daneshwari I. Hatti, *Ashok V. Sutagundar*, “ **Agent Technology based Resource Allocation for Fog Enhanced Vehicular Services**”, Springer International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV 2019), February 14th -15th , 2019, Tirunalveli, Tamilnadu, India.
11. Ashok V. Sutagundar, Prashant S,“**Context Aware Information Classification in Fog Computing**”, International Conference on Advances in Electronics, Computers and Communications (ICA ECC 2018), 9 th – 10th Feb, 2018, REVA University Bangaluru.
12. Ashok V. Sutagundar, Padmaja K, “**Energy Efficient Dynamic Navigation System**”, International Conference on Advances in Electronics, Computers and Communications (ICA ECC 2018), 9 th – 10th Feb, REVA University Bangaluru
13. Ashok V. Sutagundar, Ameenabegum Attar, “**Resource Allocation for Fog Enhanced Vehicular Services (FEVS)**”, International Conference on Inventive Research in Computing Applications (ICIRCA 2018), 11th – 12th July 2018, Coimbatore, Tamilnadu, India
14. Ashok Sutagundar, Sangeeta B Shahapur, “**Development of Fog based Dynamic Resource Allocation and Pricing Model in IoT**”,

Second International Conference on Green Computing and Internet of Things, 16th -18th August 2018, Global Academy of Technology, Bangalore.

15. Ashok V. Sutagundar, Masuda Ettinamani, Ameenabegum Attar, “ **Iot Based Smart Shopping Mall**”, Second International Conference on Green Computing and Internet of Things, 16th -18th August 2018, Global Academy of Technology, Bangalore.
16. Ashok V. Sutagundar, Jyothi Sutar, “**Intelligent communication in VANET**”, Second International Conference on Green Computing and Internet of Things 16th - 18th August 2018, Global Academy of Technology, Bangalore
17. Neelakanth L. Jadhav , Ashok V.Sutagundar, B S. Halkarnimath,” **Parabola Structure Based Information Gathering Using AUV for Underwater Sensor Network**”, Proceedings of the IEEE 2017 International Conference on Computing Methodologies and Communication (ICCMC), Erode, Tamilnadu, India.
18. Raghotam Kulkarni, Ashok V.Sutagundar,” **Plant Disease Management**”, Proceedings of the IEEE 2017 International Conference on Computing Methodologies and Communication (ICCMC), Erode, Tamilnadu, India.
19. Manjunath H. Pujari, Ashok V. Sutagundar, Padmaja Kuruba, “**Remote Information Gathering in Wireless Satellite Based Sensor Networks**”, Proceedings of the IEEE 2017 International Conference on Computing Methodologies and Communication (ICCMC), Erode, Tamilnadu, India.
20. Ashok V. Sutagundar, Anita Bavalatti, “**Multi-Agent Based Stable Clustering In VANET**”, International conference on Smart Technologies for smart Nation, 17th-19th Aug. 2017, Bangalore, Karnataka, India.
21. Ashok V. Sutagundar, Tejashwini Kalyani, “ **Fault Tolerance in VANET**”, International conference on Smart Technologies for smart Nation, 17th-19th Aug. 2017, Bangalore, Karnataka, India.
22. Daneshwari I. Hatti, *Ashok V. Sutagundar*, “**Fuzzy Based Job Classification and Resource Allocation in IoT**”, 2017 IEEE, International Conference on Inventive Systems and Control (ICISC), Coimbatore, 2017.
23. R. M. Kittali, S. K. Mahabaleshwar and A. V. Sutagundar, "**Congestion controlled adaptive routing in wireless sensor network**", 2016 International Conference on Signal Processing, Communication, Power and Embedded System (SCOPEs), Paralakhemundi, 2016, pp. 1528-1532. doi: 10.1109/SCOPEs.2016.7955695
24. A. V. Sutagundar, B. S. Halkarnimath and R. M. Kittali, "**Elliptical structure based data gathering in underwater sensor network**", 2016 International Conference on Signal Processing, Communication, Power and Embedded System (SCOPEs), Paralakhemundi, 2016, pp. 1544-1549. doi: 10.1109/SCOPEs.2016.7955699
25. L. B. Bhajantri and A. V. Sutagundar, "**Fuzzy logic based cluster**

head selection and data processing in Distributed Sensor Networks", 2016 International Conference on Computing, Analytics and Security Trends (CAST), Pune, 2016, pp. 282-288. doi: 10.1109/CAST.2016.7914981

26. A. V. Sutagundar, V. S. Bennur and K. N. A. A. M. Bhanu, "**Agent based fault tolerance in wireless sensor networks**", *2016 International Conference on Inventive Computation Technologies (ICICT)*, Coimbatore, 2016, pp. 1-6. doi: 10.1109/INVENTIVE.2016.7823265
27. A.V. Sutagundar, Ravikanth Belagali, Padmaja Kuruba," **Cluster Based Routing in Satellite Sensor Network**", Proceedings of Fifth International conference on Recent Trends in Information Technology, 8th – 9th , April 2016, Madras.
28. A.V. Sutagundar, Pampapati Hubballi, "**Agent based Dynamic Clustering for Hybrid VANET (ADCHV)**", Proceedings of IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2016), 19-20 May 2017, Bangalore
29. Ashok. V. Sutagundar, B. S. Halkarnimath," **Mobile Nodes' Localization In Underwater Acoustic Sensor Networks**", Proceedings of National Conference on Recent trends in Electronics and Communication, 5th May, 2016, Bangalore.
30. A. V. Sutagundar, Pampapati Hubballi, "**Geometrical Shape based Multipath Routing in WSNs**", Proceedings of National Conference on Recent trends in Electronics and Communication, 5th May, 2016, Bangalore.
31. A. V. Sutagundar, Daneshwari I. Hatti, Anjali. J. Rathod,"**Data Clustering In Sensor-Cloud**", Proceedings of National Conference on Recent trends in Electronics and Communication, 5th May, 2016, Bangalore.
32. A.V. Sutagundar, Pampapati Hubballi, Ravikant Belagali, "**Stability Oriented Cluster Dynamism in VANET**", IEEE International Conference Computational Systems and Information Technology for Sustainable Solution, 6th - 8th October 2016.
33. Ashok V. Sutagundar, S. S. Shirabur, V. S. Bennur, "**Energy Efficient Localization in Wireless Sensor Networks**", Proceedings of International Conference on Netcom2013, Chennai, December 27-29, 2013.
34. A.V. Sutagundar, S. S, Manvi, "**Event Triggered Multipath Routing in Wireless Sensor Networks**", Proceedings of Ninth International Conference on Wireless Communication and Sensor Networks, IIT, Allahabad, 16-21, December 2013
35. A.V. Sutagundar, S. S, Manvi, "**Event Driven Dynamic clustering and Data aggregation in Wireless Sensor Networks**", In proceedings of 4th IEEE International Conference on Electronics Computer Technology, Kanyakumari, India, April 2012.
36. A.V. Sutagundar, S. S, Manvi,"**Sink Driven Axes based Data Aggregation in Wireless Sensor network**", Computer Applications in Industry and Engineering CAINE-2011. November 16-18, 2011, USA.
37. Prashanth, A. V. Sutagundar, S. S. Manvi, "**Agent based information aggregation and routing in WSN**", International conference on communication, networking and computing (CNC), Bangalore, India,

March 10-11, 2011.

38. S.S. Manvi, A. V. Sutagundar, B. S. Halkrnimath, "**Energy efficient data aggregation and routing in Wireless Sensor Networks**", International Conference on Recent Trends in Information, Telecommunications and Computing (ITC), Bangalore, India, March 2011.
39. Ashok. V. Sutagundar, S. S. Manvi, "**Agent based context aware image fusion for military sensor networks**", IEEE International Conference on Wireless Communication and Sensor Networks, Allahabad, India, Dec. 2009.
40. S.S. Manvi, A. V. Sutagundar, "**Intelligent Disjoint Multipath Routing in Wireless Sensor networks**" Seventh International Conference on Information Processing – 2013.
41. Kiran B., A.V. Sutagundar, S. S. Manvi, "**Context aware computing in WSNs: A review**", Proc. International Conference Advances in Recent Technologies in Communications and Computing (ARTCOM), Kottayam, India, Aug. 2009.
42. Ashok V. Sutagundar, S. S. Manvi, "**Information gathering in wireless sensor networks : A survey**", Proceedings of International Conference on Computer Network Technology, Chennai, India, July 2009.
43. Ashok V. Sutagundar, S. R. Bharmagoudar, S. S. Manvi, "**Wavelet Based Image Indexing and Retrieval**" 16-18, July, First IEEE Conference on Emerging Trends in Engineering and Technology, 2008, Nagapur.
44. A.V.suatgundar, S.S.Manvi, Vivek kumar, "**RFID Ad-Hoc Network Based Services in Shopping Mall**" Aug26-28, 2007 IICT07, Dehradun
45. S. S. Manvi, M.N. Birje, "**Agent Dynamic Bandwidth Allocation Scheme for MANETs By using Mobile Agents**" Aug26-28, 2007 IICT07, Dehradun IICT, Dehradun.
46. A.V.suatgundar, S.S.Manvi, M.N.Birje, "**Agent Based Location Aware Services using agents In wireless Mobile Networks**" The Third Advanced International Conference on Telecommunications, AICT,2007, Mauritius, May, 13th-19th,2007.
47. A. V. Suatgundar, Vijayashree. B M. S.Tambakad, "**Intra and Inter Prediction In H.264/PEG-4 part 10 AVC decoder**", National conference on emerging trends in Electronics and communication, 14-15th Sept, 2006, VERNGOA., India
48. M. S.Tambakad, S. G. Kambalimath, "**VLSI imaplimentation of Veterbi Decoder**", National conference on emerging trends in Electronics and communication, 14-15th sept, 2006, VERNGOA, India.
49. A.V.suatgundar, S.S.Manvi, R.C.Biradar, "**Wavelet Based Information Fusion Wireless Sensor Networks**" International Conference on resource utilization and Intelligent system, Perundurai, Erode, Tmailnadu, India.
50. A.V.Suatgundar, S.S.Manvi, "**Multi Sensor Image Fusion using Wavelet Transform**" National conference on Communication and Computational Technique, Feb, 2006, Dehradun, India
51. S. S. Manvi, B. Rashmi, A.V.Suatgundar, "**Agent Based Intrusion Detection framework for Local Area Network**", National conference on devices Intelligent system and communication system, sept, 2005,Manipal India.
52. A.V.Suatgundar, Sridhar. K, Manjula. Tambakad, "**A wavelet Based Image compression**", National conference. High performance computing, April 2005, Tirunalveli, Tamilanadu, India.

Invited Talks

1. Ashok Sutagundar, “**Research Methodology**”, Bheemanna Khandre Institute of Technology, Bhalki, 6th June 2020.(Webinar)
2. Ashok Sutagundar, “**Machine learning and its applications**” VSM Institute of Technology, Nipani, VSM Institute of Technology, Nipani, 13th July 2020. (Webinar)
3. Ashok Sutagundar, “**Internet of Things, Issues and Applications**”, VSM Institute of Technology, Nipani, VSM Institute of Technology, Nipani, 13th July 2020.(Webinar)
4. Talk on “**Research Supervisor and Student Relation**” at three day workshop on Research Methodology and Technical Documentation using Latex during 3rd -5th May 2018, organized by Sharan Basava University, Kalaburgi.
5. Talk on “**Research Ethics and Plagiarism**” at three day workshop on Research Methodology and Technical Documentation using Latex during 3rd -5th May 2018.
6. Talk on “**Usage of Latex Commands**” at three day workshop on Research Methodology and Technical Documentation using Latex during 3rd -5th May 2018, organized by Sharan Basava University, Kalaburgi.
7. Talk on “**Technical Paper Writing**” at three day workshop on Research Methodology and Technical Documentation using Latex during 3rd -5th May 2018, organized by Sharan Basava University, Kalaburgi.
8. Invited talks at FDP at Recent Trends in Electronics and Communication, ”**Nature Inspired Computing**”, on 05/04/2016 BLDE Engineering College, Bijapur.
9. Invited talks at FDP at Data Networks and Security, “ **Data Link Layer and its issues**” January 11-15, 2016, Government Goa college of Engineering College, Goa.
10. Invited talks at FDP at Data Networks and Security, “ **Sensor Networks and its Applications**”, January 11-15, 2016 Government Goa college of Engineering College, Goa.
11. Resource Person for FDP on "**Technical Documentation using Latex**", Appa College of Engineering and Technology, Gulburga.
12. Resource Person for FDP on Resource Person for FDP on “**Recent trends in sensor Networks**”, 9th -10th Jan. 2015, Appa College of Engineering and Technology.
13. Invited talk in FDP on “**Information Management in Sensor Networks**”, 9th -10th Jan. 2015, Appa College of Engineering and Technology.
14. Invited talk in FDP on "**Technical Documentation using Latex**",

06th-8th March, 2014 Siddharth Institute of Technology, Tumakur.

15. Invited talks and handled laboratory sessions at FDP on “**Wireless Networks and Testing**” 28th August – 1st September, 2013, B. V. Bhoomaraddi College of Engineering and Technology, Hubli.
16. Invited talk presented at Two-Day workshop on “**Computer Networks**”, Basaveswar Engineering College, Bagalkot, April 20-21, 2011.
17. Invited talk presented at Two Day Workshop on “**Simulation of Computer Networks Using NS2 Simulator**”, REVA Institute of Technology and Management, Bangalore-64, December 15-16, 2011.
18. Invited talk presented at Three Day VTU-VGST Sponsored FDP on “**Recent Advances in Wireless Sensor Networks**”, Basaveswar Engineering College, Bagalkot, February 10-12, 2011.
19. Invited talk presented at STTP on “**Internet and its applications**”, Basaveshwar Engineering College, Bagalkot, February, 2009
20. Invited talk presented at faculty development programme on “**Wireless Networks**”, Visvesvaraya Technological University, Belgaum, 14-18, December 2009.
21. Invited talk presented at faculty development programme on “**Documentation using Latex**”, REVA Institute of Technology and Management, Bangalore-64, January 27-28, 2010.
22. Invited talk presented at STTP on “ **Routing Protocols in Wireless Sensor Networks**”, SJBIT, Bangalore
23. Invited talk presented at STTP on “**Recent Trends in Cellular Networks**”, BVVS Polytechnic, Bagalkot
24. Invited talk presented at STTP on “**Wireless Sensor Networks**”, Bhemanna Khandre institute of technology, Bhalki, 2013
25. Invited talk presented at STTP on “**Image Fusion Techniques**”, Jawaharlal Nehru National College of Engineering
26. Invited talk presented at STTP on “**Context Aware Image Fusion in Wireless Military Sensor Networks**” Jawaharlal Nehru National College of Engineering
27. Invited talks on “Multiple Access Techniques for Mobile Communication” presented at Short Term Training Programme on “**Digital and Mobile Communications**”, B.V.V.S. Polytechnic, Bagalkot-587101, 23rd to 24th June 2008.
28. Invited talks presented at Short Term Training Programme on”

Mobile Cellular Concepts”, presented at Short Term Training Programme on “**Digital and Mobile Communications**”, B.V.V.S. Polytechnic, Bagalkot-587101, 23rd to 24h June 2008.

29. Invited talks presented at Short Term Training Programme on “Advanced Wireless Networks”, presented at Short Term Training Programme on “**Digital and Mobile Communications**”, B.V.V.S. Polytechnic, Bagalkot-587101, 23rd to 24h June 2008.
30. Invited talks presented and handled lab sessions at faculty development programme, “**Computer Network Simulation (CNS-08)**” Feb 21-23, 2008, at Basaveshwar Engineering College, Bagalkot – 587102.
31. Invited talk presented at STTP on “**Challenges in Routing for Wireless Sensor Networks**”, BVBCET, Hubli, 2010.
32. Invited talk presented at STTP on “**Communication Networks; Overview**” at BEC, Bagalkot, 2006

Events Organized

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1. Co-ordinated Guest lecturer on “**Internet of Things**” held in Basaveshwar Engineering College, Bagalkot on 29th February 2016 by Mr. Prafulla, Mr. Subodh, and Mr. Tharaunkumar, Dew Mobility PVT. LTD. Banagalore.
2. Co-ordinated Guest lecturer on “**Cloud Computing**” held in Basaveshwar Engineering College, Bagalkot on 20th January 2017 by Kiran R Kawalli, Cognizant Technologies, PVT. LTD., Bangalore
3. Co-ordinated Guest lecturer on “**Product Compliance**” held in Basaveshwar Engineering College, Bagalkot on 10th September 2016 by Kiran Ganjendragad, Honeywell Automations, Pune
4. Co-ordinated Student Development Programme on “**PLC Programming**”, held in Basaveshwar Engineering College, Bagalkot during 7th – 9th September 2016.
5. Coordinator for TEQIP-II sponsored National Level Workshop on “**Technical Documentation Using Latex**” May 27-29, 2013, Basaveshwar Engineering College, Bagalkot.
6. Co-ordinated Three-day training program on “**Effective practices of teaching**” held in Basaveshwar Engineering College, Bagalkot, 3rd -5th of March, 2012.
7. Attended special training for DTE Karnataka for “**Industrial Automation**” 29th – 3rd December 2010, held at Wurzburg, Germany.
8. Received grants from VTU (Rs. 14.58 lakhs) for project “**Cognitive agent based information fusion in wireless sensor networks**”, 2010-2013
9. Coordinator for TEQIP-II sponsored National Level Workshop on “**Computer Network Simulator**” (under TEQIP), 21-23 Feb., 2008

10. Coordinated a National STTP program on “**Network Simulator**” (under TEQIP), 2008.
11. Coordinator for “**AVISHKAAR-06**” project exhibition conducted by Department of E & C Engg., Basaveshwar Engineering College, Bagalkot – 587102, 2006
12. Coordinator for workshop on “**Data Structures**” Organized by Department of E & C Engg., Basaveshwar Engineering College, Bagalkot –587102.
13. Coordinator for “**AVISHKAAR-05**” project exhibition conducted by Department of E & C Engg., Basaveshwar Engineering College, Bagalkot – 587102, 2005

Conferences/ Symposiums/ Workshops/ Training Programs Attended :

1. AICTE sponsored one week STTP-I on “**Advances in Wireless Technologies and Telecommunication**”, August 03-08, 2020 organized by Geethanjali College of Engineering and Technology
2. AICTE Sponsored One Week National Level Online STTP 1 on “**Trends and Challenges in Design and Implementation of Reconfigurable Antennas for Increased Spectrum Access in Cognitive Radio Communication**” 20 -25 July 2020, Organized Velagapudi RamaKrishna Siddhartha Engineering College, Vijayawada, Andhra Pradesh.
3. AICTE Sponsored Six days STTP on “**Developing Research and Development Culture in Industry Institute Interaction Oriented Modern Teaching Learning and Project Based Learning**”, 24/08/2020 to 29/08/2020, organized by the **FRANCIS XAVIER ENGINEERING COLLEGE**
4. AICTE sponsored one week STTP-II on “**Advances in Wireless Technologies and Telecommunication**”, August 17-22, 2020organized by Geethanjali College of Engineering and Technology
5. Online Webinar on “**Industry 4.0 & Its Role in Manufacturing**” organized by M/S Bosch Rexroth Innovation Lab & Department of Mechanical Engineering on 25th July, 2020, Dayanad Sagar University, Bangaluru
6. AICTE Sponsored One Week Online Short-Term Training Programme (STTP-III) on “**Advances in Wireless Technologies and Telecommunication**” organized by Geethanjali College of Engineering and Technology, during August 31- September 5, 2020
7. AICTE Sponsored One Week Online Short-Term Training Programme (STTP-I) on “**Mathematical Foundations of Machine learning (Linear Algebra and Probability basis)**”, Organized by NMIT, Nitte during 7th – 13th August 2020.
8. National level one week Online Faculty Development programme on, “ **Recent trends in Data Science**”, organized by Theem college of Engineering, Mumbai during 1st – 5th July 2020.
9. Three Days Online Faculty Development Program on “**Emerging technologies in IT Industry**” from 28-05-2020 to 30-05-2020, organized by Jain College of Engineering, Belgavi.
10. Virtual Faculty Development program on, “**Neural Networks**

- and Deep learning using Python**", 1st - 5th June 2020, organized of Computer Science, Reva University, Bangaluru.
11. TEQIP-III sponsored Two days' **E-workshop on "AICTE-Examination Reform Policy"** held on 6th and 7th, May, 2020 organized by Basaveshwar Engineering College, Bagalkot
 14. New Model Curriculum for PG course as per OBE format including Course Outcome (CO), organized VTU, Belgaum at BNMIT, Banagalore.
 15. Goa Institute of Management MDP course on **Data Analytics and Machine Learning With Python** November 7th – 10th , 2019.
 16. IIT, Mumbai CEP Course on End to End Innovation February 19-23-2018.
 17. International Symposium on, **"Green Technologies and sustainable Development"** , 24th -25th February 2017, held at Basaveshwar Engineering College, Bagalkot.
 18. Three Days faculty Development programme, **"Technology Driven Innovation and Entrepreneurship"**, 15th - 19th February 2017, conducted by IIT, Mumbai, at Basaveshwar Engineering College, Bagalkot.
 19. Session Chair for the **"IEEE International conference on SMARTTECHCON 2017"**, 17th -19th August 2017, held at REVA University Bangalore.
 20. Attended two days **"IEEE International Conference on Computation Methodologies and Communication (ICCMC 2017)"**, 18th -19th July 2017 held at Sury Engineering College, Erode, Tamailnadu.
 21. Attended Three days Faculty Development programme on **"Recent Advances in Signal Processing and Communication Networks"**, from 17th -19th March 2017 held in Basaveshwar Engineering College, Bagalkot.
 22. Attended One day Management Development programme, **"Winning Edge: Stratgic Thinking and Creative Leadership"**, 4th February 2017, conducted by MBA Management Studies at Basaveshwar Engineering College, Bagalkot.
 23. **International Conference on Inventive Systems and Control (ICISC)**, 19th Jan – 20th Jan 2017, JCT College of Engineering and Technology, Coimbatore
 24. **International Conference on Inventive Computation Technologies (ICICT 2016)**, Aug 26th -27th , 2016 Coimbatore
 25. **International conference on Signal Processing, Communication, power and Embedded System (SCOPEs)**, 03 Oct - 05 Oct 2016, Parakalmaundi, odhissa
 26. **International Conference on Computation System and**

Information Technolgy for Sustainable Solutions (CSITSS),
06 Oct - 08 Oct 2016, R V College of Engineering Bengaluru,
India

27. Attended two days International Conference on **“International Conference on Signal Processing, Communication and Computational Research”**, 18th – 19th May 2016.
28. One day national conference on **“Recent trends in Electronics and Communication”** , 5th May 2016 held at Global Academy of Technology, Bangalore.
29. Attended one workshop on **“Outcome based Education”**, 18th December 2015 held in Basaveshwar Engineering College, Bagalkot.
30. Attended one workshop on **“Curriculum Development and Reforming”**, 25th July 2015 held in Basaveshwar Engineering College, Bagalkot.
31. Attended one Week Management Development Programme on, **”Academic Leadership for TEQIP Institutions”**, 02nd -07th March 2015 held in Indian Institute of Khozikhode, Kerala.
32. Attended Three days Faculty Development programme on **“Research Issues in Distributed Sensor Networks”**, 22nd – 24th August 2013, held in Basaveshwar Engineering College, Bagalkot.
33. Short Course on **“Wireless Sensor Networks: Theory and Challenges”** at Indian Institute of Technology, Kanpur, July 22-24, 2013.
34. FDP on **“Implementation of signal processing algorithms using FPGA”** May 23-25, 2013, BEC Bagalkot
35. FDP on **“Simulation of Computer Networks Using NS2 Simulator”** February 16-18, 2012, VTU Belgaum.
36. Attended two days International Conference on **“Second International Conference on Recent Trends in Information Telecommunication and Computing (ITC-2011)”**, 10th – 11th March 2011.
37. Three days workshop on **“Simulation of Computer Networks Using NS-2 Simulator”**, at RITM, Bangalore in association with VTU Belgaum, 02/02/11 to 04/02/11.
38. Attended FDP on **“ Advance Computer Networks and Simulators”**, 27th – 29th January 2011 RITM, Bangalore in association with VGST.
39. Special Training on Pneumatics, Hydraulics, Mechtronics conducted by Bosch Rexroth AG, Wurzburg, Germany during 29th November 3rd December 2010.
40. Attended the training on **“Basic training on Electric Drives and**

Control", 14th - 18th June 2010 Conducted by Bosch Rexroth (India) PVT. LTD.

41. Train the trainers program on Industrial Automation Technology at VTU-BR Centre of competence in Automation Technology organized by Bosch Rexroth AG during April 1st 2010 to April 27th 2010.
42. 4th National Workshop on "**Technological advances in wireless Networks**", PING-2009, Manipal Institute of Technology, Manipal, October 30-31, 2009.
43. 4th National Workshop on "**Technological advances in wireless Networks**", PING-2009, Manipal Institute of Technology, Manipal, October 30-31, 2009.
44. 18th IEEE Annual symposium on emerging needs in Computing, Communication, Signals and Power, Bangalore, August 2009.
45. Attended two days workshop on "**Research Methodologies and Report Writing**", 25th – 26th May 2009 organized by e-learning Center VTU, Belgaum
46. AICTE sponsored **National Conference on Computer Networks** (NCCN-09) at Reva Institute of Technology and Management, Bangalore, February 20-21, 2009.
47. **IEEE region 10 Conference, TENCON 2008**, University of Hyderabad, Hyderabad, India, November 18-21, 2008.
48. **Indo-US collaboration for Engineering Education (IUCEE-08)** course on "**Computer Networks**" at Infosys Technologies, Mysore from 9th- 13th June, 2008.
49. Three days faculty development programme on "**Computer Network Simulation (CNS-08)**", February 21-23, 2008, at Basaveshwar Engineering College, Bagalkot.
50. One week workshop on "**Third Advanced International Conference on Telecommunications**", AICT, May, 13th-19th, 2007, Mauritius.
51. Attended one week Faculty Development programme on "**Embedded Systems**", from 05th -10th February 2007 held in Basaveshwar Engineering College, Bagalkot.
52. Three days work shop on "**Advance Linux Administration**", Jan, 29-31st ,2007, ESCI Hyderabad
53. Two days national seminar on "**Mobile and Pervasive Computing**", Nov 24 & 25, 2006, P.D.A College of Engg, Gulbarga.
54. Attended Three days Faculty Development programme on "**Signal Processing and its Applications**", from 9th -11th October 2006 held in Basaveshwar Engineering College, Bagalkot.

55. Attended Three days Faculty Development programme on **“Digital Signal Processor and its Applications”**, from 25th - 30th September 2006 held in Basaveshwar Engineering College, Bagalkot.
56. Short term training programme on **"Internet Protocols"** Aug 21-26, 2006 at Basaveshwar Engineering College, Bagalkot - 587102.
57. One week workshop on **"Digital Image Processing"**, BVB CET, Hubli, Karnataka
58. Short term course on **"Instructional Design and Delivery"**, Aug. 08 -13, 2005 at Basaveshwar Engineering College, Bagalkot - 587102.
59. National level seminar on **"Recent Trends in Computer Communications and Networking"**, Mar. 15-16, 2005 at Basaveshwar Engineering College, Bagalkot - 587102.
60. One week Lecture Series on **" Mathematical modeling for digital Image Processing"**, Basaveshwar Engineering College, Bagalkot, Karnataka
61. One STTP course on **" Ubiquitous Computing"**, IISC, Bangalore
62. Two days workshop on **"Wavelets and its Applications"**, CEDT, IISC, Bangalore.
63. Two Days National Level Seminar on **" Medical Imaging and Processing"**, Dayanand Sagar College of Engineering, Bangalore
64. Three days International Conference on **" Resource utilization and Intelligent System “Pendurai, Tamilnadu.**
65. Three days national conference on **" Communication and Computational Technique"** Dehradun Institute of technology
66. Two days national conference on **"High Performance Computing"**, Tirunalveli, Tamilnadu.

Awards and Honors

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1. Listed in **Marqui's Who's Who in the World 2010**
2. Received financial assistance from TEQIP, Basaveshwar Engineering College, Bagalkot to present a technical paper at **3rdInternational Conference on AICT 2007,Mauritius**