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Dean (R&D) and ICT, Professor
Department of Electronics & Communication Engineering
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<http://www.becbgk.edu/department/ec/resume/MSK%20Resume%2009-02-2019.pdf>

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Researcher Id: AAK-5303-2020

Google Scholar Id: 8K2uedoAAAAJ

Microsoft Academic Search Id: j323f92f-ji41-4e67-f5e4-49e85903j5i9

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Curriculum Vitae

Qualification	Ph.D. Visvesvaraya Technological University, Belgaum Department: Electronics & Communication Engineering Year: 2012
	M. Tech. (Digital Communications) Basaveshwar Engineering College, Bagalkot Visvesvaraya Technological University, Belgaum Year: 2006
	B. E. (Electronics and Communication Engineering) B.V. Bhoomaraddi College of Engineering and Technology, Hubli Karnataka University, Dharwad Year: 2001
Ph.D. Thesis Title	Multi-agent System based Safety Information Gathering, Aggregation and Dissemination in Vehicular Ad hoc Networks
M. Tech. Project Title	Agent based information services in Vehicular Ad-hoc Networks
B.E. Project Title	Design and Implementation of Digital Filters
Areas of Interest	Vehicular Ad-hoc Networks, Wireless Sensor Networks, Multi-Agent Systems, Internet of Things

Academic Data:

Exam Passed	University/ Board	Year	Class/ Division	Overall % of Marks	Branch/Specification
Ph.D.	Visvesvaraya Technological University, Belgaum	SEPT-2012	Thesis Title: Multi-Agent System Based Safety Information Gathering, Aggregation and Dissemination in Vehicular Ad hoc Networks.		
M. Tech	Visvesvaraya Technological University, Belgaum	OCT-2006	First Class with Distinction	77.40%	Digital Communications
B. E.	Karnataka University, Dharwad	OCT-2001	First Class with Distinction	70.22%	Electronics & Communication Engineering
P.U.C.	Department of Pre-University Education, Karnataka	JUN-1996	First Class with Distinction	78.50%	-----
S.S.L.C.	Karnataka Secondary Education Examination Board	APR-1994	First Class with Distinction	83.80%	-----

Ph.D. Students:**Completed**

- 1) Design and Development of Intelligent Routing Algorithms for V2V, V2I, and Hybrid Communication in VANETs – Mrs. Mamata J. Sataraddi (AYoR: 2015-16, DoR: 21.12.2015, DoC: 14.09.2021, USN 2BA16PEJ01)
- 2) Intelligent Resource Management Schemes in Vehicular Cloud Networks – Mr. Mahantesh G. Kambalimath (AYoR: 2013-14, DoR: 31.10.2013, DoC: 14.09.2021, USN 2BA13PEN04)
- 3) Intelligent Schemes to Resolve the Issues of Privacy and Security in VANETs – Mrs. Shailaja Mudengudi (AYoR: 2013-14, DoR: 24.10.2013, DoC: 30.10.2021, USN 2BA13PEN03)
- 4) Intelligent Solutions for information Gathering, Validation And Aggregation in Internet of Things (IoT) – Mr. Sharanappa P. H (AYoR: 2014-15, DoR: 12.12.2014, DoC: 29.06.2022, USN 2BA15PEJ01)
- 5) Design and Development of Data Dissemination Algorithms for V2V, V2I, Hybrid and Pedestrian Communication in VANETs – Mr. Ramesh B. Koti (AYoR: 2015-16, DoR: 28.12.2015, DoC: 01.04.2023, USN 2BA16PEJ05)
- 6) Design and Development of Intelligent Resource Management Schemes for Wireless Sensor Networks – Mr. Gururaj S. Kori (AYoR: 2015-16, DoR: 28.12.2015, DoC: 08.04.2023, USN 2BA16PEJ02)
- 7) Intelligent Security and Privacy Schemes for Internet of Things – Mrs. Poornima M. Chanal (AYoR: 2017-18, DoR: 03.06.2017, DoC: 22.06.2023, USN 2BA17PEA05)
- 8) Sensor Node Localization, Clustering and Routing Algorithms for Wireless Sensor Networks – Mr. Basavaraj M. Angadi (AYoR: 2017-18, DoR: 03.06.2017, DoC: 10.07.2024, USN 2BA17PEA03)

Ongoing

- 1) Data Security Management Techniques for Edge Computing – Mr. Vinayak A. Telsang (AYoR: 2020-21)
- 2) Design and Development of Data Management Techniques in IoT – Mrs. Supriya B. Harlapur (AYoR: 2022-23)
- 3) Design and Development of Contactless Care System using Radar Sensors for Differently-abled and Geriatric People – Mr. Basavaraj Soratur (AYoR: 2022-23)
- 4) Efficient Data Security Schemes for Internet of Medical Things – Mrs. Benazir H. Muntasher (AYoR: 2023-24)
- 5) Machine Learning based Algorithms to Mitigate Eavesdropping, Spoofing and Privacy Leakage Attacks in IoT – Mr. Kotrappa B. Korlahalli, (AYoR: 2024-25)

Research Grants:

- 1) Received Seed Money to Young Scientists for Research (SMYSR) grant from Vision Group on Science and Technology, Department of Information Technology, Biotechnology and Science and Technology Government of Karnataka of Rs. 4,00,000=00 in the year 2016
- 2) Received IEEE mini grant award of USD 500 for UG project titled, “Multi agent based information gathering and dissemination in VANETS”, by IEEE, USA in the year 2012
- 3) Received 1.60 lakhs grant from VTU –VGST for conduction of Three Day FDP on “Recent Advances in Wireless Sensor Networks”, at Basaveswar Engineering College, Bagalkot, February 10-12, 2011

Patents:

- 1) Patent published, title “Preventing Center Median Accidents on Highways using nRF Module Communication between the Car and Medians”, Application No. 202341029502 A, Publication Date: 26.05.2023
- 2) Patent published, title “Biometric based Vehicle Ignition System”, Application No. 202341050242 A, Publication Date: 01.09.2023

Consultancy:

- 1) Design, development and hosting of following websites: (2010-2015): Generated the total revenue of Rs. 1,00,000
 - I. <http://www.snmcbgk.in/>
 - II. <http://www.medicainnovatica.org/>
 - III. <http://www.bvssrvrp-guledgudd.ac.in/>
 - IV. <http://bvvsayurved.ac.in/>
 - V. <http://www.bvssajjalashree.ac.in/>
 - VI. <http://bgmitm.ac.in/>
- 2) Third party inspection of Panchayat Raj Engineering Department, Bagalkot for Desktop Computers (60 Nos.), Printers (44 Nos.) and scanners (12 Nos) on 20.05.2021. Generated the total revenue of Rs. 88,000
- 3) Third party inspection of City Municipal Council (CMC), Bagalkot for GPS installed to 34 CMC vehicles on 15.04.2021. Generated the total revenue of Rs. 11,500
- 4) Third party inspection of Karnataka State Minerals Corporation Limited (KSMCL) for Computers, Accessories and Furniture supplied to various schools of Bagalkot and Belgaum district supplied under Corporate Social Responsibility on 05.08.2023. Generated the total revenue of Rs. 40,000

Publications:

Book:

- 1) S. S. Manvi, Mahabaleshwar S Kakkasageri, "Wireless and Mobile Network Concepts and Protocols", John Wiley India Pvt. Ltd., First Edition 2010 (ISBN: 2010 978-8126520695), Second Edition 2016 (ISBN: 978-8126558551)

Book Chapters:

- 1) C. L. Chayalakshmi, Rajani S. Pujar, Mahabaleshwar S. Kakkasageri, "Machine Learning Fundamentals", Contributed chapter in book titled, "AI and Blockchain in Smart Grids: Fundamentals, Methods, and Applications", CRC press, 2024
- 2) C. L. Chayalakshmi, Mahabaleshwar S. Kakkasageri, Rajani S. Pujar, Nayana Hegde, "IoT Sensors for Smart Automation: A Systematic Review", Chapter 6, pp. 141-170, Contributed chapter in book titled, "AI and Blockchain Applications in Industrial Robotics", Dr Rajashekhar C. Biradar, et. al., (Edts.), IGI Global publishers, 2023
- 3) Mamata J. Sataraddi, Mahabaleshwar S. Kakkasageri, Sunilkumar S. Manvi, "Artificial Intelligence Techniques based Routing Protocols in VANETs: A Review", Chapter 11, pp. 163-188, Contributed chapter in book titled, "Industry 4.0: Research Trends, Challenges, and the Future of AI in Data Science", Dr. Kakoli Banerjee, et. al., (Edts.), Taylor and Francis group, CRC press Publishers, 2021
- 4) Poornima M. Chanal, Mahabaleshwar S. Kakkasageri, Sunilkumar S. Manvi, "Security and Privacy in Internet of Things: Computational Intelligent Techniques based Approaches", Contributed chapter in book titled, "Recent Trends in Computational Intelligence Enabled Research", Dr. Siddhartha Bhattacharyya, et. al., (Edts.), Elsevier publishers, 2021
- 5) B. M. Angadi, Mahabaleshwar S. Kakkasageri, Sunilkumar S. Manvi, "Computational Intelligence Techniques for Localization and Clustering in Wireless Sensor Networks", Contributed chapter in book titled, "Recent Trends in Computational Intelligence Enabled Research", Dr. Siddhartha Bhattacharyya, et. al., (Edts.), Elsevier publishers, 2021
- 6) Gururaj S. Kori, Mahabaleshwar S. Kakkasageri, Sunilkumar S. Manvi, "Computational Intelligent Techniques for Resource Management Schemes in Wireless Sensor Networks", Contributed chapter in book titled, "Recent Trends in Computational Intelligence Enabled Research", Dr. Siddhartha Bhattacharyya, et. al., (Edts.), Elsevier publishers, 2021
- 7) S. S. Manvi, M. S. Kakkasageri, "Emerging Security Issues in Vehicular Ad-hoc Networks (VANETs) for E-business", Chapter XXXIX, Contributed chapter in book titled, "Handbook of Research on Telecommunications Planning and Management for Business", In Lee (Editor), Western Illinois University, USA, pp. 599-614, 2009, IGI Global publishers
- 8) M. S. Kakkasageri, S. S. Manvi, "A Survey on Information Dissemination in VANETs", Contributed chapter in book titled, "Roadside Networks for Vehicular Communications: Architectures, Applications and Test Fields", pp. 212-236, Robil Daher and Alexey Vinel (Edts.), 2012, IGI Global Publishers

Journals:

- 1) Basavaraj M. Angadi and Mahabaleshwar S. Kakkasageri, "K-Means and Fuzzy based Hybrid Clustering Algorithm for WSN", *International Journal of Electronics and Telecommunications*, Polish Academy of Sciences Committee of Electronics and Telecommunication, Vol. 69, No. 4, pp. 793-801, 2023, DOI: 10.24425/ijet.2023.147703

- 2) Ramesh B. Koti, Mahabaleshwar S. Kakkasageri, Rajani S. Pujar, "Artificial Neural Network Based Safety Information Dissemination in Vehicle to Internet", *Journal of Electronics and Telecommunications Research Institute (ETRI)*, Wiley, DOI: 10.4218/etrij.2022-0203
- 3) Poornima M. Chanal, Mahabaleshwar S. Kakkasageri, "Blockchain based Data Integrity Framework for Internet of Things", *International Journal of Information Security*, Springer, DOI: 10.1007/s10207-023-00719-6
- 4) Basavaraj M. Angadi, Mahabaleshwar S. Kakkasageri, "Mobile Anchor Assisted Effective Node Localization Algorithm for Wireless Sensor Networks", *International Journal of Wireless Communications and Networking*, pp. 1-9, Vol. 12, No. 1, January 2023, DOI: 10.30534/ijwcnt/2023/011212023
- 5) Gururaj S. Kori, Mahabaleshwar S. Kakkasageri, "Classification And Regression Tree (CART) based Resource Allocation Scheme for Wireless Sensor Networks", *Computer Communications*, Elsevier, pp. 242-254, Vol. 197, November 2022, DOI:10.1016/j.comcom.2022.11.003
- 6) Gururaj S. Kori, Mahabaleshwar S. Kakkasageri, "Game Theory based Resource Identification Scheme for Wireless Sensor Networks", *International Journal of Intelligent Systems and Applications*, Vol. 2, pp. 54-73, April 2022
- 7) Ramesh B. Koti, Mahabaleshwar S. Kakkasageri, "Delay and Energy Optimized Safety Information Dissemination Scheme in V2I Networks", *International Journal of Information Technology and Computer Science (IJITCS)*, pp. 34-51, Vol. 14, No. 3, March 2022
- 8) Gururaj S. Kori, Mahabaleshwar S. Kakkasageri, "Agent Driven Resource Scheduling in Wireless Sensor Networks: Fuzzy Approach", *International Journal for Information Technology (IJIT)*, Springer, Vol. 14. No. 01, pp. 345-358. Feb. 2022
- 9) Sharanappa P. H., Mahabaleshwar S. Kakkasageri, "An Efficient Information Aggregation Scheme in Internet of Things: Multi Agent based Approach", *International Journal of Soft Computing and Engineering (IJSCE)*. Vol. 11, No. 1, pp. 23-31, September 2021
- 10) Ramesh B. Koti, Mahabaleshwar S. Kakkasageri, "Multi Agent Assisted Safety Information Dissemination Scheme for V2V Communication in VANETs: Intelligent Agent Approach", *International Journal of Intelligent Systems and Applications*, pp. 49-62, Vol. 4, No. 1, August 2021
- 11) Sharanappa P. H., Mahabaleshwar S. Kakkasageri, "Dynamic Information Validation Scheme in Internet of Things: Software Agent based Approach", *International Journal of Computer Science and Engineering*, Vol. 9, No. 7, pp. 1-10, July 2021
- 12) Mamata J. Sataraddi, Mahabaleshwar S. Kakkasageri, "Hybrid Routing Protocol for VANETs: Delay and Trust based Approach", *Journal of High Speed Networks*, IOS press, Vol. 26, No. 4, pp. 275–290, January 2021
- 13) Sharanappa P. H., Mahabaleshwar S. Kakkasageri. "Multi-Agent based Information Gathering Scheme in Internet of Things", *Journal of Emerging Technology and Innovative Research*, Vol. 8, No. 1, pp. 515-523, January 2021.
- 14) Poornima M. Chanal, Mahabaleshwar S. Kakkasageri, "Preserving Data Confidentiality in Internet of Things", *SN Computer Science*, Springer, Vol. 02, No. 53, pp. 1-12, January 2021
- 15) Mamata J. Sataraddi, Mahabaleshwar S. Kakkasageri, "Intelligent Routing Scheme for Vehicle-to-Vehicle Communication", *International Journal of Computer Sciences and Engineering*, Vol. 8, No. 12, pp. 88-93, December 2020
- 16) Hemantaraj M. Kelagadi, Priyatam Kumar, Mahabaleshwar S. Kakkasageri, "Energy Efficient Protocols in WSN's – A Simulation Study in Network Simulator Environment", *Journal of Switching Hub*, Vol. 5, No. 3, December, 2020
- 17) Mahantesh G. Kambalimath, Mahabaleshwar S. Kakkasageri, "Multi Task Management Scheduler in Vehicular Cloud Networks", *International Journal of Computer Science & Wireless Security (IJCSWS)*, Vol. 07, No. 06, pp. 1-12, December 2020
- 18) Poornima M. Chanal, Mahabaleshwar S. Kakkasageri, "Security and Privacy in IoT: A Survey", *Wireless Personal Communications*, Springer, Vol. 115, No. 01, 1667–1693, November 2020

- 19) Shailaja S. Mudengudi, Mahabaleshwar S. Kakkasageri, "RSA based Location Verification in Vehicular Clouds: Agent Based Approach", *International Journal for Research in Engineering Application & Management (IJREAM)*, Vol. 06, No. 08, November 2020
- 20) Shailaja S. Mudengudi, Mahabaleshwar S. Kakkasageri, "A Light Weight KNN Based Continuous User Authentication Scheme for Vehicular Clouds", *International Journal of Engineering Research in Computer Science and Engineering (IJERCSE)*, Vol. 7, No. 9, pp. 6-19, September 2020
- 21) Mahantesh G. Kambalimath, Mahabaleshwar S. Kakkasageri, "Cost Optimization based Resource Allocation for Vehicular Cloud Networks", *International Journal of Computer Network and Information Security*, MECS Press, , Vol. 2, No.2, pp. 22-31, April 2020
- 22) Mahantesh G. Kambalimath, Mahabaleshwar S. Kakkasageri, "Dynamic Resource Discovery Scheme for Vehicular Cloud Networks", *International Journal of Information Technology and Computer Science*, MECS Press, Vol. 11, No. 12, pp. 38-49, December 2019
- 23) Shailaja S. Mudengudi, Mahabaleshwar S. Kakkasageri, "Agent Based Trust Establishment between Vehicle in Vehicular Cloud Networks", *International Journal of Computer Network and Information Security*, MECS Press, Vol. 11, No. 7, pp. 29-36, July 2019
- 24) M. S. Kakkasageri, S. S. Manvi, "Regression based Critical Information Aggregation and Dissemination in VANETs: A Cognitive Agent Approach", *Vehicular Communications*, Elsevier, Vol. 1, No. 4, pp. 168-180, October 2014
- 25) Sharanappa P. H., M. S. Kakkasageri, "Performance Analysis of CSMA, MACA and MACAW Protocols for VANETs", *International Journal of Future Computer and Communication*, Vol. 3, No. 2, pp. 129-134, April 2014
- 26) R. B. Koti, M. S. Kakkasageri, "Multi agent based Congestion Control in VANETs", *International Journal of Future Computer and Communication*, Vol. 3, No. 2, pp. 102-104, April 2014
- 27) M. S. Kakkasageri, S. S. Manvi, "Safety Information Management in Vehicular Ad-hoc Networks: A Review", *Journal of Network and Computer Applications*, Elsevier, Vol. 39, No. 1, pp. 334-350, 2014
- 28) M. S. Kakkasageri, S. S. Manvi, Jeremy Pitt, "Cognitive agent based critical information gathering and dissemination in vehicular ad hoc networks", *Wireless Personal Communications*, Springer, Vol. 69, No. 4, pp. 1107-1129, April 2013
- 29) M. S. Kakkasageri, S. S. Manvi, "Multiagent driven Dynamic Clustering of Vehicles in VANETs", *Journal of Network and Computer Applications*, Elsevier, Vol. 35, No. 6, pp. 1771-1780, November 2012
- 30) Hridya C. P., Vibha N.S., M. S. Kakkasageri, S. S. Manvi, P. I. Basarkod, "A Tutorial on Cognitive Agent Architectures", *IETE Journal of Education*, Vol. 53, No. 1, pp. 21-37, January – June 2012
- 31) M. S. Kakkasageri, S. S. Manvi, "Attacker Identification in Mobile Ad hoc Networks", *International Journal of Computer Applications*
- 32) M. S. Kakkasageri, S. S. Manvi, "Intelligent Information Dissemination in Vehicular Ad hoc Networks", *International Journal of Ad hoc, Sensor & Ubiquitous Computing (IJASUC)*, Vol. 2, No. 1, pp. 112-123, March 2011
- 33) S. S. Manvi, Savitha Paliwal, M. S. Kakkasageri, Rekha Patil, "ZLERP: Zone and Link Expiry based Routing Protocol for MANETs", *International Journal of Advanced Networking and Applications (IJANA)*, Vol. 2, No. 3, pp. 650-655, Nov-Dec 2010
- 34) S. S. Manvi, M. S. Kakkasageri, Jeremy Pitt, "Multiagent based information dissemination in Vehicular Ad-hoc Networks (VANETs)", *Mobile Information Systems Journal*, IOS Press, Vol. 5, No. 4, pp. 363-389, November 2009
- 35) S. S. Manvi, M. S. Kakkasageri, "Issues in Mobile Ad hoc Networks for Vehicular Communication", *IETE Technical Review*, Vol. 25, No. 2, pp. 59-72, March-April, 2008
- 36) S. S. Manvi, M. S. Kakkasageri, "Multicast Routing in Mobile Ad hoc Networks by Using a Multiagent System", *Information Sciences, Elsevier*, Vol. 178, No. 6, pp. 1611-1628, March 2008
- 37) M. S. Kakkasageri, S. S. Manvi, G. D. Soragavi, "Agent based Information Access in Wireless Sensor Networks", *WSEAS Transactions on Information Science and Applications Journal*, Vol. 3, No. 7, pp. 1369-1374, July 2006

International Conferences:

- 1) Rajani S. Pujar, Chayalakshmi C. L., Mahabaleshwar S. K., "Adaptive LMS Algorithm for Effective Noise Suppression", *Proc. IEEE North Karnataka Subsection Flagship International Conference (NKCon - 2024)*, Bagalkote, India, 21 – 22 September 2024
- 2) Mamata J. Sataraddi, Rajani S. Pujar, Mahabaleshwar S. Kakkasageri, "A Data Integrity Framework for IoT Leveraging the Blowfish Encryption Algorithm", *Proc. IEEE North Karnataka Subsection Flagship International Conference (NKCon - 2024)*, Bagalkote, India, 21 – 22 September 2024
- 3) Shrishail N. Chamatagoudar, Rajani S. Pujar, Mahabaleshwar S. Kakkasageri, Chayalakshmi C. L., "A Comprehensive Review of Resource Management Techniques in Edge Computing", *Proc. International Conference on Sustainable Solutions in Engineering and Technology (SSET-2024)*, Bagalkote, India, 29 – 30 August 2024
- 4) Piyusha Shetgar, Chayalakshmi C.L., Mahabaleshwar S. Kakkasageri, Rajani Pujar, "Data Management in Edge Computing: Opportunities and Challenges", *Proc. International Conference on Sustainable Solutions in Engineering and Technology (SSET-2024)*, Bagalkote, India, 29 – 30 August 2024
- 5) Sadashiv Badiger, Chayalakshmi C. L., Mahabaleshwar S. Kakkasageri, Rajani S. Pujar, "Edge Computing based Smart Health Care System", *Proc. International Conference on Sustainable Solutions in Engineering and Technology (SSET-2024)*, Bagalkote, India, 29 – 30 August 2024
- 6) Sharanappa P. H., Basavaraj M. Angadi, Sudha K. S., Mahabaleshwar S. Kakkasageri, "IoT Enabled Infant Incubator for Healthcare Centers", *Proc. International Conference on Sustainable Solutions in Engineering and Technology (SSET-2024)*, Bagalkote, India, 29 – 30 August 2024
- 7) Supriya B. Harlapur, Mahabaleshwar S. Kakkasageri, "Machine Learning Approaches for Data Storage in IoT: A Review", *Proc. International Conference on Sustainable Solutions in Engineering and Technology (SSET-2024)*, Bagalkote, India, 29 – 30 August 2024
- 8) Vinayak A. Telsang, Mahabaleshwar S. Kakkasageri, Anil D. Devangavi, "Intrusion Detection Analysis using Deep Learning Models in IoT", *Proc. International Conference on Sustainable Solutions in Engineering and Technology (SSET-2024)*, Bagalkote, India, 29 – 30 August 2024
- 9) Benazir Muntasher, Mahabaleshwar S. Kakkasageri, "Review on Various attacks in IoMT and Its Detection Methods", *Proc. International Conference on Sustainable Solutions in Engineering and Technology (SSET-2024)*, Bagalkote, India, 29 – 30 August 2024
- 10) Basavaraj Soratur, Mahabaleshwar S. Kakkasageri and Subhas Meti, "Contactless Care Systems: A Review", *Proc. International Conference on Sustainable Solutions in Engineering and Technology (SSET-2024)*, Bagalkote, India, 29 – 30 August 2024
- 11) Gururaj S. Kori, Mahabaleshwar S. Kakkasageri, Vijaykumar Hiremath, Poornima M. Chanal, Rajani S. Pujar, "Cognitive Swarm Drones Attack Model: A Grey Wolf Optimization Approach", *Proc. IEEE International conference on Electronics, Computing and Communication Technologies (CONECCT-2024)*, Indian Institute of Science, Bengaluru, India, July 12-14, 2024
- 12) Vinayak A. Telsang, Mahabaleshwar S. Kakkasageri, Anil D. Devanagavi, "Edge Computing Devices Authentication Using Quantum Computing", *Proc. 15th IEEE International Conference On Computing, Communication And Networking Technologies (ICCCNT)*, IIT Mandi, India, June 24-28, 2024
- 13) Basavaraj M. Angadi and Mahabaleshwar S. Kakkasageri, "Reinforcement Learning based Hybrid Optimum Route Identification Scheme in WSN", *Proc. IEEE International Conference for Intelligent Technologies (CONIT)*, Hubballi, India, June 21-23, 2024
- 14) Rajani S. Pujar, Chayalakshmi C. L., Mahabaleshwar Kakkasageri, "Machine Learning based Dynamic Resource Allocation in 6G Networks", *Proc. IEEE International Conference for Intelligent Technologies (CONIT-2024)*, Hubballi, India, June 21-23, 2024
- 15) Basavaraj M. Angadi, Mahabaleshwar S. Kakkasageri, "Machine Learning based Effective Clustering Scheme for Wireless Sensor Networks", *Proc. IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON – 2023)*, Bengaluru, India, September 1-2, 2023
- 16) Poornima Chanal, Mahabaleshwar S. Kakkasageri, "IoT Device Authentication Scheme: Machine Learning Approach", *Proc. 9th IEEE International Conference on Electronics, Computing and Communication Technologies, (CONECCT)*, Bangalore, July 2023

- 17) Gururaj S. Kori, Mahabaleshwar S. Kakkasageri, "Resource Allocation Scheme for Wireless Sensor Networks: Machine Learning Approach", *Proc. 2nd IEEE International Conference on Signal and Information Processing (IConSIP-22)*, August 2022, Pune, India
- 18) Ramesh B. Koti, Mahabaleshwar S. Kakkasageri, "Reliable Multihop Path Selection Scheme for Vehicle to Internet Communication", *Proc. IEEE 2nd Asian Conference on Innovation in Technology, (ACIT-2022)*, August 2022, Pune, India
- 19) Poornima Chanal, Mahabaleshwar S. Kakkasageri, "Secured Data Integrity Scheme for Internet of Things", *Proc. 2nd International Conference on Intelligent Technologies (CONIT)*, Hubli, June 2022
- 20) Sharanappa P. H., Mahabaleshwar S. Kakkasageri, "Intelligent Agents Assisted Information Aggregation in Internet of Things", *Proc. IEEE Fourth International Conference on Advances in Electronics, Computers and Communications (ICAIECC)*, Bangalore, India, pp. 1-7, January 2022
- 21) Mamata J. Sataraddi, Mahabaleshwar S. Kakkasageri, "Machine Learning based Vehicle-to-Infrastructure Communication in VANETs", *IEEE 18th India Council International Conference (INDICON)*, pp. 1-6, December 19-21, 2021
- 22) Shailaja S. Mudengudi, Mahabaleshwar S. Kakkasageri, "Agent based Location Validation for Vehicular Clouds", *Proc. International Conference on Wireless Sensor Networks, Ubiquitous Computing and Applications 2021 (ICWSNUCA-2021)*, Springer, 2021, Hyderabad, India
- 23) Mahantesh G. Kambalimath, Mahabaleshwar S. Kakkasageri, "Pre Emptive Multitasking Algorithm based Resource Sharing Controller in Vehicular Cloud Networks", *Proc. 5th IEEE International Conference on Computing, Communication and Security (ICCCS-2020)*, Indian Institute of Technology (IIT) Patna, India, October 14-16, 2020
- 24) Sharanappa P. H., Mahabaleshwar S. Kakkasageri, "Multiagent based Information Validation Scheme in Internet of Things", *Proc. IEEE International Conference on Smart Generation Computing, Communication and Networking (SMARTGEN)*, Pune, India, pp. 1-5, October 2021
- 25) Ramesh B. Koti, Mahabaleshwar S. Kakkasageri, "Multi Agent Driven Safety Information Dissemination in V2I Networks: QoS Assured Approach", *Proc. International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICECMSN-2021)*, September 2021, Bangalore, India
- 26) Shailaja S. Mudengudi, Mahabaleshwar S. Kakkasageri, "Authentication of Vehicles in Vehicular Clouds: An Agent Based Approach" *Proc. International Conference on Recent Trends in Machine Learning, IOT, Smart Cities & Applications (ICMISC)*, Springer, Hyderabad, India, 28 - 29 March 2020
- 27) Gururaj S. Kori, Mahabaleshwar S. Kakkasageri, "Intelligent Resource Identification for Wireless Sensor Networks", *Proc. International Conference on Recent Trends in Machine Learning, IOT, Smart Cities & Applications (ICMISC)*, Springer, Hyderabad, India, 28 - 29 March 2020
- 28) Basavaraj M. Angadi, Mahabaleshwar S. Kakkasageri, "Anchor based Effective Node Localization Algorithm for Wireless Sensor Networks", *Proc. International Conference on Recent Trends in Machine Learning, IOT, Smart Cities & Applications (ICMISC)*, Springer, Hyderabad, India, 28 - 29 March 2020
- 29) Mahantesh G. Kambalimath, Mahabaleshwar S. Kakkasageri, "Hungarian method based Resource Allocation Scheme for Vehicular Cloud Networks", *Proc. 5th International Conference on Inventive Computation Technologies (ICICT)*, Coimbatore, India, 26-28 Feb 2020
- 30) Mamata J. Sataraddi, Mahabaleshwar S. Kakkasageri, "Trust and Delay based Routing for VANETs", *Proc. IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)*, Goa, India, December 16-19, 2019
- 31) Mamata J. Sataraddi, Mahabaleshwar S. Kakkasageri, "Connectivity and Delay Aware Reliable Routing in Vehicular Ad hoc Networks", *Proc. IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS)*, Goa, India, December 16-19, 2019
- 32) Poornima Chanal, Mamata J. Sataraddi, Mahabaleshwar S. Kakkasageri, Rahul Jahagirdar "Performance Analysis of Ant Colony based Routing Approach for VANETs using vanetMobisim and NS2", *Proc. 11th IEEE International Conference on Advanced Computing (ICoAC)*, Chennai, India, December 18-10, 2019
- 33) Sharanappa P. H., Mahabaleshwar S. Kakkasageri "Intelligent Information Gathering Scheme in Internet of Things (IoT)", *Proc. 11th IEEE International Conference on Advanced Computing (ICoAC)*, Chennai, India, December 18-10, 2019
- 34) Poornima M Chanal, Mahabaleshwar S Kakkasageri, "Hybrid Algorithm for Data Confidentiality In

- Internet of Things”, *Proc. IEEE 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT)*, pp. 87-91, IIT Kanpur, India, July 6-8, 2019
- 35) Gururaj S. Kori, Mahabaleshwar S Kakkasageri, “Intelligent Agent based Resource Scheduling in Wireless Sensor Networks”, *Proc. IEEE 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT)*, pp. 87-91, IIT Kanpur, India, July 6-8, 2019
 - 36) Ramesh Koti, Mahabaleshwar S. Kakkasageri, “Intelligent Safety Information Dissemination Scheme for V2V Communication in VANET’s”, *Proc. IEEE International Conference on Systems, Computation, Automation and Networking (ICSCAN 2019)*, Puducherry, India, March 30-31, 2019
 - 37) Mahantesh G. Kambalimath, Mahabaleshwar S. Kakkasageri, S. S. Manvi, “Honey Bee Optimization based Resource Discovery Scheme for Vehicular Cloud Networks”, *Proc. IEEE International Conference on Smart Technologies for Smart Nation (SmartTechCon)*, Bangalore, India, August 17-19, 2017
 - 38) Shailaja Mudengudi, Mahabaleshwar S. Kakkasageri, “Establishing Trust between Vehicles In Vehicular Clouds: An Agent Based Approach”, *Proc. IEEE International Conference on Smart Technologies for Smart Nation (SmartTechCon)*, Bangalore, India, August 17-19, 2017
 - 39) Mamata Sataraddi, Mahabaleshwar S. Kakkasageri, “BDI Agent based Dynamic Routing Scheme for Vehicle-to-Vehicle Communication in VANETs”, *Proc. IEEE International Conference on Smart Technologies for Smart Nation (SmartTechCon)*, Bangalore, India, August 17-19, 2017
 - 40) Mahabaleshwar S. Kakkasageri, Mamata J. Sataraddi, Poornima M. Chanal, Gururaj S. Kori, “BDI Agent Based Routing Scheme in VANETs”, *Proc. IEEE International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET)*, Chennai, India, March 22-24, 2017
 - 41) Mamata J. Sataraddi, Mahabaleshwar S. Kakkasageri, Gururaj S. Kori, Rajeshwari V. Patil, “Intelligent Routing for Hybrid Communication in VANETs”, *Proc. 7th IEEE International Advance Computing Conference (IACC)*, Hyderabad, India, January 5-7, 2017
 - 42) Poornima M. Chanal, Mahabaleshwar S. Kakkasageri, Avani A. Shirbur, Gururaj S. Kori, “Energy Aware Multipath Routing Scheme for Wireless Sensor Networks”, *Proc., 7th IEEE International Advance Computing Conference (IACC)*, Hyderabad, India, January 5-7, 2017
 - 43) Hridya Premkumar, Vijayashree Budyal, Mahabaleshwar S Kakkasageri, “Cognitive Agent Based Stable Routing Protocol for Vehicle-to-Vehicle Communication”, *Proc. 13th IEEE India Conference (INDICON)*, Bengaluru, India, December 16-18, 2016
 - 44) Ramesh Koti and Mahabaleshwar S. Kakkasageri, “Dynamic Topology Control in Multiple Clustered Vehicular Ad hoc Networks”, *Proc. IEEE International Conference on Signal Processing, Communication, Power and Embedded System (SCOPE-2016)*, Odisha, India, October 3-5, 2016
 - 45) Basavaraj M. Angadi, Mahabaleshwar S. Kakkasageri, Gururaj S. Kori, “Topology Control Scheme for Fault Tolerance in Wireless Sensor Network”, *Proc. IEEE International Conference on Signal Processing, Communication, Power and Embedded System (SCOPE – 2016)*, Odisha, India, October 3-5, 2016
 - 46) Rashmi Kittali, Mahabaleshwar S. Kakkasageri and A. V. Sutagundar, “Congestion Controlled Adaptive Routing in Wireless Sensor Network”, *Proc. IEEE International Conference on Signal Processing, Communication, Power and Embedded System (SCOPE – 2016)*, Odisha, India, October 3-5, 2016
 - 47) Gururaj S Kori, Mahabaleshwar S Kakkasageri, Poornima M Chanal, “Energy Efficient Multipath Routing Protocol for Wireless Sensor Networks”, *Proc. National Conference on Recent Trends in Communication and Computing (NCRTCC)*, Davangere, India, 27th February 2016
 - 48) Poornima M. Chanal, Gururaj S. Kori, M. S. Kakkasageri, “Efficient Reliable Routing Scheme for VANETs” *Proc. 4th IEEE International Conference on Communication and Signal Processing (ICCSP)*, pp. 937-942, Melmaruvathur, Tamilnadu, April 2-4, 2015
 - 49) M. J. Sataraddi, M. S. Kakkasageri, “Energy Efficient Path Identification in Wireless Sensor Networks”, *Proc. 4th IEEE International Conference on Communication and Signal Processing (ICCSP)*, pp. 943-948, Melmaruvathur, Tamilnadu, April 2-4, 2015
 - 50) Poornima M. Chanal, Gururaj S. Kori, M. S. Kakkasageri, “Energy Aware Cluster based Routing Scheme in Wireless Sensor Networks” *Proc. International Conference on Advances in Engineering Technology and Science (ICAETS)*, pp. 134-138, Munnar, Kerala, India, April 26-27, 2014
 - 51) Poornima M. Chanal, Gururaj S. Kori, M. S. Kakkasageri, “Critical Data Validation Scheme in Vehicular Ad Hoc Networks” *Proc. International Conference on Advances in Engineering Technology and Science (ICAETS)*, pp. 139-143, Munnar, Kerala, India, April 2-4, 2015

- 52) S. M. Iddalagi, M. S. Kakkasageri, "Dynamic Data Forwarding in Wireless Sensor Networks", *Proc. 6th International Workshop on Next Generation of Wireless and Mobile Networks (NGWMN), 8th International Conference on Broadband and Wireless Computing, Communication and Applications (BWCCA)*, France, October 28-30, 2013
- 53) M. G. Kambalimath, M. S. Kakkasageri, "Reliable Data Delivery in Vehicular Ad hoc Networks", *Proc. 6th International Workshop on Next Generation of Wireless and Mobile Networks (NGWMN), 8th International Conference on Broadband and Wireless Computing, Communication and Applications (BWCCA)*, France, October 28-30, 2013
- 54) M. S. Kakkasageri, S. S. Manvi, "Connectivity and mobility aware dynamic clustering in VANETs", *Proc. 4th IEEE International Conference on Electronics Computer Technology (ICECT)*, Kanyakumari, India, April 6-8 2012
- 55) M. S. Kakkasageri, S. S. Manvi, "Safety Information Aggregation in VANETs using Vehicle Beliefs", *Proc. IEEE 5th International Symposium on Advanced Networks and Telecommunication Systems (ANTS)*, Bangalore, India, December 19-21, 2011
- 56) S. S. Manvi, M. S. Kakkasageri, "Artificial Neural Network based misuse detection in MANETs", *Proc. International Conference on VLSI, Communication and Instrumentation (ICVCI)*, pp. 644 – 648, Kottayam, Kerala, April 7-9, 2011
- 57) M. S. Kakkasageri, S. S. Manvi, "Safety Information Gathering and Dissemination in Vehicular Ad hoc Networks: Cognitive Agent based Approach", *Proc. 1st International Conference on Computer Science and Information Technology, (CCIT)*, Springer, pp. 254-264, Bangalore, India, January 2-4, 2011
- 58) M. S. Kakkasageri, S. S. Manvi, "Push-Pull Based Critical Information Gathering In VANETs: Multi Agent System Based Approach", *Proc. IEEE International Conference in Vehicular Electronics and Safety (ICVES)*, pp. 1-6, Pune, India, November 10-12, 2009
- 59) R. S. Pujar, S. S. Manvi, M. S. Kakkasageri, "Multipath Routing in Mobile Ad-hoc Networks for Multimedia Communication", *Proc. 18th IEEE Annual Symposium on Emerging Needs in Computing, Communication, Signals and Power*, Bangalore, India, August 2009
- 60) S. S. Manvi, M. S. Kakkasageri, D. G. Adiga, "Message Authentication in Vehicular Ad hoc Networks (VANETs): ECDSA based approach", *Proc. International Conference on Future Computer and Communication*, Kuala Lumpur, Malaysia, April 3-5, 2009
- 61) S. S. Manvi, M. S. Kakkasageri, C. V. Mahapurush, "Performance Analysis of AODV, DSR, and Swarm Intelligence Routing Protocols In Vehicular Ad hoc Network (VANET) Environment", *Proc. International Conference on Future Computer and Communication*, Kuala Lumpur, Malaysia, April 3-5, 2009
- 62) V. V. Ayyannavar, S. S. Manvi, M. S. Kakkasageri, "Swarm Intelligence Based routing in VANETs", *Proc. AICTE Sponsored National Conference on Information Technology (NCIT)*, Bangalore, India, March 30-31, 2009
- 63) V. S. Bennur, Pranaw Kumar, S. S. Manvi, M. S. Kakkasageri, "Mobile agent based topology discovery in Mobile Ad hoc Networks (MANETs)", *Proc. National Conference on Computer networks*, Bangalore, India, February 20-21, 2009
- 64) M. S. Kakkasageri, S. S. Manvi, B. M. Goudar, "An Agent based Framework to Find Stable Routes in Mobile Ad hoc Networks (MANETs)", *Proc. IEEE TENCN*, Hyderabad, India, November 18-21, 2008
- 65) M. S. Kakkasageri, S. S. Manvi, R. S. Gadad, "QoS Aware Multicast routing in MANETs", *Proc. IEEE TENCN*, Hyderabad, India, November 18-21, 2008
- 66) M. N. Birje, S. S. Manvi, M. S. Kakkasageri, S. V. Saboji, "Prediction based handover for multiclass traffic in mobile networks: An agent based approach", *Proc. 6th IEEE International Conference on Information, Communication and Signal processing (ICICS)*, Singapore, December 10-13, 2007
- 67) L. B. Bhajantri, S. S. Manvi, M. S. Kakkasageri, S. S. Nandi, "Auction system in wireless environment" *Proc. International Conference on Applied Computer Science (ACOS)*, Venice, Italy, November 2007
- 68) S. S. Manvi, M. S. Kakkasageri, "Mobile agent based on line material discovery (MAOLMD)", *Proc. International Conference on Higher Education (ICHE)*, Indian Institute of Science (IISc), Bangalore, pp. 185-192, July 12-14, 2007
- 69) S. S. Manvi, M. S. Kakkasageri, S. V. Saboji, "Prediction based handover for multiclass traffic in mobile networks", *Proc. International Conference on Wireless Networks (ICWN), World Congress in*

Computer Science, Computer Engineering, & Applied Computing, Las Vegas, Nevada, USA, pp. 293-298, June 25-28, 2007

- 70) S. S. Manvi, M. S. Kakkasageri, Jeremy Pitt, "Information Search and Access in Vehicular Ad-hoc Networks (VANETs): An Agent Based Approach", *Proc. International Conference on Communication in Computing (CIC), World Congress in Computer Science, Computer Engineering, & Applied Computing*, Las Vegas, Nevada, USA, pp. 23-29, June 25-28, 2007
- 71) S. S. Manvi, M. S. Kakkasageri, Avnit Kumar Sinha, "Agent based multicast routing in MANETs", *Proc. 13th National Conference on Communications*, Kanpur, India, pp. 189-192, January 26-28, 2007
- 72) S. S. Manvi, M. S. Kakkasageri, Jeremy Pitt and Alex Rathmell, "Multi-Agent Systems as a Platform for VANETs", *Proc. Agents in Traffic and Transportation (ATT), International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, Hakodate, Japan, pp.35-42, May 09-12, 2006
- 73) M. S. Kakkasageri, S. S. Manvi, G.D. Soragavi, "Mobile agent based event discovery in wireless sensor networks", *Proc. International Conference on Applied Computer Science (ACOS)*, Hangzhou, China, pp. 731-735, April 16-18, 2006

In Progress/Under Review:

- 1) Gururaj S Kori, Mahabaleshwar S Kakkasageri, Poornima M. Chanal, Rajani S. Pujar, Vinayak A. Telsang, "Wireless Sensor Networks and Machine Learning Centric Resource Management Schemes: A Survey", *Ad Hoc Networks, Elsevier* (Under Review)
- 2) Vinayak A. Telsang, Mahabaleshwar S. Kakkasageri, Anil D. Devanagavi, "Blockchain based Device Authentication in Edge Computing using Quantum Approach", *International Journal of Computer Network and Information Security (IJCNIS)* (Under Review)
- 3) Basavaraj M. Angadi and Mahabaleshwar S. Kakkasageri, "Q-learning and GSA based Optimal Routing Algorithm for Wireless Sensor Networks", *International Journal of Computer Network and Information Security* (Under Review)
- 4) Mamata J. Sataraddi, Mahabaleshwar S. Kakkasageri, Ajay Bandi, Rajani S. Pujar, "Multi-agent Approach for Vehicle-to-Infrastructure Routing in VANETs: A Machine Learning Framework" *Wireless Personal Communications, Springer* (Under Review)
- 5) Vinayak Telsang, Anil D. Devanagavi, Mahabaleshwar S. Kakkasageri, "A Review on Edge Computing Data Security Management Techniques for IoT", *Computing, Springer* (Under Review)
- 6) Poornima M. Chanal, Mahabaleshwar S. Kakkasageri, Rajani S. Pujar, "Cognitive Agent based Context Aware Authentication Scheme for IoT Devices: Regression Approach", *Peer-to-Peer Networking and Applications, Springer* (Under Review)

Academics:

Subjects taught at Postgraduate Level

Wireless Communication, Wireless and Mobile Networks, Research Methodology, Advanced Computer Networks, Multimedia Communication

Subjects taught at Undergraduate Level

Communication Systems, Automotive Electronics, Computer Networks, Computer Organization, Multimedia Communication, Wireless Networks, Mobile Communication

Projects Guided at PG Level - Total projects guided is 25

Projects Guided at UG Level – Total projects guided is 60

Online Courses:

- AICTE-AQIS Sponsored STTP on “Enabling wireless Technology: Software Defined Radio Applications on SISO Packet based Communication”, November 23-28, 2020
- AICTE Training And Learning (ATAL) Academy, “Internet of Things (IoT)”, October 29 – November 2, 2020
- AICTE Training And Learning (ATAL) Academy, “Cyber Security”, October 19-23, 2020
- AICTE approved FDP course on “Introduction to Internet of Things (SWAYAM)” conducted by Sudip Misra, IIT Kharagpur, 14 September 2020 - 04 December 2020
- FDP on “Research Aspects in Modern Analytics and Cyber Security” Conducted by Jaypee Institute of Information Technology, Noida, July 20-24, 2020
- FDP on “Six Sigma”, July 6 – 10, 2020, BEC Bagalkot
- AICTE Training And Learning (ATAL) Academy, “Block Chain”, June 22- 26, 2020
- Virtual FDP on “Neural Networks and Deep Learning using Python”, organized by REVA University, Bangalore, June 1-5, 2020
- International FDP on “Innovative Trends in Engineering and Technology, organized by SLRT College of Engineering Thane, Mumbai, May 25-29, 2020
- Online FDP on “Research, Funding Projects and IPR”, organized by K. C. College of Engineering and Management Studies and Research, Thane, Mumbai, May 7-10, 2020
- FDP on “Digital Transformation in Teaching Learning Process” (SWAYAM) conducted by IIT Mumbai
- AICTE approved FDP course on “Computer Networks and Internet Protocol (SWAYAM)” conducted by Prof. Soumya Kanti Ghosh and Prof. Sandip Chakraborty, IIT Kharagpur, 27 January 2020 - 17 April 2020

Invited Talks:

- 1) Invited talk on “Wireless Networks” at One week International online FDP titled “Recent Advances in Biomedical Applications and Communication Networks (RA-BACN 2020)”, 13.07.2020 – 18.07.2020, organized by Department of ECE ,GMRIT, Rajam in association with Wiley on 15.07.2020
- 2) Invited talk on “VANETs: Challenges & Perspectives” at TEQIP-III sponsored Online Faculty Development Programme on “Recent Advances in Automation and Networking” organized by Department of Electronics and Communication Engineering, Basaveshwar Engineering College, Bagalkot from June 18-20, 2020
- 3) Invited talk on “Wireless Networks & Applications” organized by Department of Information Science and Engineering, Rajkiya Engineering College Bijnor, from January 21-24, 2018
- 4) Invited talk at National workshop on “Data Networks and Security” Department of Electronics and Telecommunications, Goa Engineering College, Ponda, Goa from January 11-15, 2016
- 5) Invited talk at STTP on “Recent Advances in Electronics and Communication” Department of Electronics and Communication Engineering, BLDEACET, Bijapur, 05/04/2016
- 6) Invited talks and handled laboratory sessions at FDP on “Research Methodologies” B. V. Bhoomaraddi College of Engineering and Technology, Hubli, 13th February – 15th February, 2014
- 7) Invited talks and handled laboratory sessions at FDP on “Wireless Networks and Testing” B. V. Bhoomaraddi College of Engineering and Technology, Hubli. 28th August – 1st September, 2013
- 8) Invited talk presented at FDP on “Recent Advances in Wireless Networks”, Basaveshwar Engineering College, Bagalkot, May 16-18, 2013
- 9) Invited talk presented at National Level Workshop on “Technical Documentation Using Latex” Basaveshwar Engineering College, Bagalkot, May 27-29, 2013
- 10) Invited talk presented at VTU, Belgaum on “Security Issues in Vehicular Ad hoc Networks”

March 15, 2012

- 11) Invited talk presented at BVVS Polytechnic, Bagalkot on “Skills of Technical Paper Publication” March 13, 2012
- 12) Invited talk presented at VTU, Belgaum on “Simulation of Computer Networks Using NS2 Simulator” February 16-18, 2012
- 13) Invited talk presented at SAE, BEC Bagalkot on “Technical Paper Writing and its presentation” February 11, 2012
- 14) 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
- 15) Invited talk presented at Two-Day workshop on “Computer Networks”, Basaveswar Engineering College, Bagalkot, April 20-21, 2011
- 16) 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
- 17) Invited talk presented at Three Day Workshop on “Simulation of Computer Networks Using NS2 Simulator”, REVA Institute of Technology and Management, Bangalore-64, February 2-4, 2011
- 18) Invited talk presented at faculty development programme on “Documentation using Latex”, REVA Institute of Technology and Management, Bangalore-64, January 27-28, 2010
- 19) Invited talk presented at faculty development programme on “Wireless Networks”, Visvesvaraya Technological University, Belgaum, 14-18, December 2009
- 20) Invited talk presented at FDP on “Wireless Sensor Networks”, Basaveshwar Engineering College, Bagalkot, February 24-28, 2009
- 21) Invited talk presented at STTP on “Internet and its Applications”, Basaveshwar Engineering College, Bagalkot, February, 2009
- 22) Invited talk presented at ISTE Workshop on “Wireless Networks”, Rural Engineering College, Hultoti, 7th October 2008
- 23) Invited talks presented at Short Term Training Programme on “Mobile and Digital Communications”, B.V.V.S. Polytechnic, Bagalkot-587101, 23rd to 27th June 2008
- 24) 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
- 25) Invited talk presented at national workshop, “ELCOM-NW-07” at B.L.D.E.A, Engineering College, Bijapur- 586103 on “Communication Networks”, September 21-23, 2007
- 26) ACME (E&C Dept. association, B E C Bagalkot) coordinator for the year 2005-06, 2006-07, and 2008-09
- 27) Invited talk presented and handled lab sessions at Short term training programme, “Internet Protocols” at Basaveshwar Engineering College, Bagalkot - 587102 on “Communication Networks; Overview” Aug 21-26, 2006
- 28) Invited talk presented at E-Week, Basaveshwar Science College, Bagalkot-587101, on “Optical Fibre Communication” 16th to 21st January 2006
- 29) Invited talks presented at Short Term Training Programme on “Data Communication and Networks”, B.V.V.S. Polytechnic, Bagalkot-587101, 2nd to 6th January 2006

FDP Organized:

- 1) Coordinator for TEQIP-III sponsored Online Faculty Development Programme on “Recent Advances in Automation and Networking” organized by Department of Electronics and Communication Engineering, Basaveshwar Engineering College, Bagalkot from June 18-20, 2020
- 2) Coordinator for Faculty Development Programme on “Recent Advances in Signal Processing

and Communication Networks”, Basaveshwar Engineering College, Bagalkot, 17th – 19th March, 2017

- 3) Coordinator for TEQIP-II sponsored FDP on “Recent Advances in Wireless Networks” Basaveshwar Engineering College, Bagalkot, May 16- 18, 2013
- 4) Coordinator for TEQIP-II sponsored National Level Workshop on “Technical Documentation Using Latex”, Basaveshwar Engineering College, Bagalkot, May 27-29, 2013
- 5) Coordinator for Three Day VTU-VGST Sponsored FDP on “Recent Advances in Wireless Sensor Networks”, Basaveshwar Engineering College, Bagalkot, February 10-12, 2011. (Received 1.60 lakhs grant from VTU –VGST)
- 6) Coordinator for “TECHNOFEST-08” Organized by Department of E & C Engg., Basaveshwar Engineering College, Bagalkot – 587102
- 7) Coordinator for TEQIP sponsored Faculty development programme on “Computer Network Simulation (CNS-08)”, Feb 21-23, 2008, Basaveshwar Engineering College, Bagalkot
- 8) Coordinator for TEQIP sponsored FDP on “Wireless Sensor Networks”, at Basaveshwar Engineering College, Bagalkot, February 24-28, 2009
- 9) Coordinator for “AVISHKAAR-06” project exhibition conducted by Department of E & C Engg., Basaveshwar Engineering College, Bagalkot – 587102, 2006
- 10) Coordinator for “gyanX” programme. (VTU online programme for Engg. Colleges) (2006-2008).
- 11) Coordinator for workshop on “Data Structures” Organized by Department of E & C Engg., Basaveshwar Engineering College, Bagalkot, 2007
- 12) Coordinator for “Workshop on CCNA” Organized by Department of E & C Engg. In association with KaRox Technologies Limited Pune at Basaveshwar Engineering College, Bagalkot, 2006
- 13) Coordinator for “AVISHKAAR-05” project exhibition conducted by Department of E & C Engg., Basaveshwar Engineering College, Bagalkot – 587102, 2005

Memberships and Activities in Professional Associations:

- 1) Organizing Chair, IEEE North Karnataka Subsection Flagship International Conference (NKCon - 2024), BEC Bagalkote, India, 21 – 22 September 2024
- 2) Organizing Chair, International Conference on Sustainable Solutions in Engineering and Technology (SSET-2024), BEC Bagalkote, India, 29 – 30 August 2024
- 3) Coordinator of WAVE – 2.0, A National Level Hackathon (24 Hours) conducted at BEC Bagalkot and Sponsored by BEC-AICTE IDEA Laboratory, July 1-2, 2024
- 4) Coordinator of “Open Day”, BEC Bagalkot, May 18, 2024
- 5) Session Chair for 3rd Series of CONIT (The International Conference for Intelligent Technologies), Hubballi, Karnataka , India, 23.06.2023 to 25.06.2023
- 6) IETE (India) Member (M-223281)
- 7) Member, Departmental Research Committee (DRC), ECE Dept., BLDEACET, Bijapur (2022 to till date).
- 8) Member, Departmental Research Committee (DRC), Electronics and Telecommunication Department, Goa University, Goa (2017 to till date).
- 9) Member, Doctoral Research Committee (DRC), Electronics and Communication Engineering Department, B. V. B. College of Engineering and Technology, Hubli (2017 to till date).
- 10) Member, Department Advisory Board, ECE Dept., BLDEACET, Bijapur (2016-2018).
- 11) Member, Academic Council, Basaveshwar Engineering College (Autonomous), Bagalkot (2016-2018).
- 12) Programme Committee member, International Conference on Information and Multimedia Technology (ICIMT 2013), December 6-7, 2013, Sydney, Australia, IEEE Industrial Electronics and Applications, Jul 30 – Aug 2, 2017, Kuala Lumpur, Malaysia, 2nd International Conference on Computer Applications & Information Security (ICCAIS), Riyadh, Saudi Arabia, 19-21 March, 2019

- 13) Reviewer for Elsevier Information Sciences journal, IEEE Transactions on Intelligent Transportation Systems, Transportation Research, IEEE Transactions on Vehicular Technology, IEEE Systems Journal, International Journal of Distributed Sensor Networks, TELKOMNIKA Indonesian Journal of Electrical Engineering, Hindwai, Wireless Networks, Springer, Scientific Research and Essays, Academic journals, IEEE Symposium on Wireless Telecommunications Applications (ISWTA2012), IEEE Symposium on Industrial Electronics and Applications (ISIEA 2012), Elsevier Information Sciences journal, Journal of Networks and Computer Application, Computer and Electrical Engineering, Vehicular Communications, International Conference on Computer and Communication Engineering (ICOCOE'2014), IEEE Symposium on Computer Applications and Industrial Electronics (ISCAIE'2014), International Conference on Information and Multimedia Technology (ICIMT 2013), ICTEC 2017, SYMINTECH'2017, APMC2017, IEACon 2016, APPEIC'2014, ADVCIT'2014, REEGETECH'2014, CyberC 2014, CCE 2014, ICWiSe2013, SoftCOM 2009.
- 14) Session chair at First International Conference on Computer Science and Information Technology, (CCIT 2011), Bangalore, India, January 2-4, 2011
- 15) B. O. S. member of E & C Engg. Department, B.V.V.S. Polytechnic (Autonomous), Bagalkot- 587102 (2014-2018)
- 16) Coordinator of VTU central valuation at Basaveshwar Engineering College, Bagalkot (2008-2010).
- 17) Organizing Committee member and reviewer for AICTE sponsored "National Conference on Computer Networking (NCCN-09)" at REVA Institute of Technology and Management, Bangalore-64, February 20-21, 2009

College assignments:

- 1) Dean (R&D) and ICT, BEC Bagalkot (2024 – to till date)
- 2) Academic Council Member, BEC Bagalkot (2022– to till date)
- 3) Programme Coordinator for "TEQIP- III: Meeting of Mentor and Mentee Institutions along with their SPIUs", Basaveshwar Engineering College, Bagalkot, 27th and 28th January 2019
- 4) Nodal Officer, Procurement, TEQIP-III, Basaveshwar Engineering College (Autonomous), Bagalkot (2017 to till date)
- 5) Coordinator, CSAB NEUT for Basaveshwar Engineering College (Autonomous), Bagalkot (2017 to till date)
- 6) QEEE Coordinator, Basaveshwar Engineering College, Bagalkot. (2014-2018)
- 7) Member, Innovation Club, Basaveshwar Engineering College, Bagalkot-587102 (2014-16)
- 8) Hostel Warden for B.E.C., Hostels Bagalkot. (Since 2015 to till date)
- 9) Campus Network Coordinator (BEC Campus LAN). (Since 2014 to till date)
- 10) Academic Council Member, BEC Bagalkot (2016 – 2018)
- 11) B.O.E., Coordinator ECE Department Basaveshwar Engineering College, Bagalkot. (2011 to till date).
- 12) B. O. S. member of E & C Engg. Department, Basaveshwar Engineering College (Autonomous), Bagalkot- 587102 (2007 to till date)

Visits Abroad

China, Srilanka, Maldieves

Conferences/ Symposiums/ Workshops/ Training Programs Attended:

- 1) Workshop on "Outcome based Education" by Dr. Sharad Pradhan from 01/02/2023 to 02/02/2023
- 2) Course on "Systems Thinking and Applications" by Dr. L. S. Ganesh, IIT Madras, Chennai at Basaveshwar Engineering College, Bagalkot, 12/10/2018 to 30/11/2018

- 3) Workshop on “Hi- Impact Leadership” by Mr. Shiv Khera, at Hillton Mumbai International Airport, Mumbai, 07/03/2018 to 09/03/2018
- 4) International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET 2017), at SSN College of Engineering, Chennai, India, March 22-24, 2017
- 5) Faculty Development Programme on “Recent Advances in Signal Processing and Communication Networks”, at Basaveshwar Engineering College, Bagalkot, 17th – 19th March, 2017
- 6) 13th International IEEE India Conference (INDICON 2016), Indian Institute of Science (IISc), Bengaluru, India, December 16-18, 2016
- 7) One week national workshop on “Data Networks and Security” organized by Department of Electronics and Telecommunications, Goa Engineering College, Ponda, Goa from January 11-15, 2016
- 8) One day workshop on “Research Methodology” organized by Basaveshwar Engineering College, Bagalkot on 19/12/2015
- 9) One day workshop on “Outcome Based Education” organized by Basaveshwar Engineering College, Bagalkot on 18/12/2015
- 10) Management Capacity Enhancement Program me (MCEP) for TEQIP Institutions (MCEP), IIM Lucknow Noida Campus, July 27th -31st 2015
- 11) Two days National Symposium on Sustainable Energy Technologies for Academic Campuses, BEC Bagalkot, June 5-6, 2015
- 12) Workshop on Image and Speech Processing, at Indian Institute of Technology, Guwahati, December 13-14, 2013
- 13) Workshop on “Quality Enhancement in Engineering Education (QEEE) at Indian Institute of Technology, Chennai, December 6-7, 2013
- 14) Workshop on “National Programme on Technology Enhanced Learning (NPTEL)” at Indian Institute of Technology, Chennai, 20th September, 2013
- 15) Short Course on “Wireless Sensor Networks: Theory and Challenges” at Indian Institute of Technology, Kanpur, July 22- 24, 2013
- 16) FDP on “Soft Computing and Evolutionary Techniques” May 30 – June 1, 2013, BEC Bagalkot
- 17) FDP on “Implementation of signal processing algorithms using FPGA” May 23-25, 2013, BEC Bagalkot
- 18) FDP on “Simulation of Computer Networks Using NS2 Simulator” February 16-18, 2012, VTU Belgaum
- 19) IEEE 5th International Symposium on Advanced Networks and Telecommunication Systems (ANTS 2011), December 19-21, 2011, Bangalore, India
- 20) Attended one day “Placement Officers Workshop” at VTU Belgaum 26/11/2011
- 21) International Conference on VLSI, Communication and Instrumentation, Saintgits College of Engineering, Kottayam, Kerala, April 7-9, 2011
- 22) 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
- 23) First International Conference on Computer Science and Information Technology, CCSIT 2011, Bangalore, India, January 2-4, 2011
- 24) One day Workshop on “Embedded System Design and Principles and Practice” conducted by Board of IT Education Standards (BITES) on 15th November 2010 at B.V.B.C.E.T., Hubli
- 25) Two days workshop on “Theory of Computing and Applications, TOC&A-10”, at RITM, Bangalore in association with IUCEE and VTU Belgaum, 28/06/2010 to 29/06/2010
- 26) IEEE International Conference on Vehicular Electronics and Safety (ICVES 2009), Pune, India, November 10-12, 2009
- 27) 4th National Workshop on “Technological advances in wireless Networks”, PING-2009, Manipal Institute of Technology, Manipal, October 30-31, 2009
- 28) 18th IEEE Annual symposium on emerging needs in Computing, Communication, Signals and Power, Bangalore, August 2009
- 29) AICTE sponsored QIP short term course on “Wireless Security”, at Indian Institute of Science (IISc), Bangalore, March 9-13, 2009
- 30) AICTE sponsored National Conference on Computer Networks (NCCN-09) at Reva Institute of Technology and Management, Bangalore, February 20-21, 2009

- 31) Workshop on "Micro strip antennas", KLE College of Engineering and Technology, Belgaum (Organized by Charan Technologies, Bangalore), February 13, 2009
- 32) IEEE region 10 Conference, TENCON 2008, University of Hyderabad, Hyderabad, India, November 18-21, 2008
- 33) Indo-US collaboration for Engineering Education (IUCEE-08) course on "Computer Networks" at Infosys Technologies, Mysore from June 9th to June 13th, 2008
- 34) Three days faculty development programme on "Computer Network Simulation (CNS-08)", at Basaveshwar Engineering College, Bagalkot, February 21-23, 2008
- 35) Seminar on "Embedded Linux on ARM", at SPJ Embedded Technologies Pvt. Ltd., Bangalore, October 25-27, 2007
- 36) Two days national workshop on "Wireless Communications", organized by B.N.M. Institute of Technology, Bangalore in association with International Institute of Information Technology, Bangalore (IIITB), August 17-18, 2007
- 37) National Workshop on IT infrastructure: Institute perspective – IT infra, organized by B V B College of Engineering and Technology, Hubli, August 3-4, 2007
- 38) International Conference on Higher Education (ICHE-07), organized by Indian Institute of Science (IISc), Bangalore, July 12-14, 2007
- 39) Faculty development programme on "Real Time Operating System", at Basaveshwar Engineering College, Bagalkot, Mar 26-31, 2007
- 40) Workshop on "Emotional Intelligence and Effective Leadership", at Basaveshwar Engineering College, Bagalkot, Mar 27, 2007
- 41) Faculty development programme on "Advanced Microcontroller", at Basaveshwar Engineering College, Bagalkot, Feb 15-17, 2007
- 42) Faculty development programme on "Embedded Systems", at Basaveshwar Engineering College, Bagalkot, Feb 05-10, 2007
- 43) The Thirteenth National Conference on Communications (NCC07), at Department of Electrical Engineering, Indian Institute of Technology (IIT), Kanpur, Jan 26-28, 2007
- 44) Two days national seminar on "Mobile and Pervasive Computing", P.D.A college of Engineering, Gulbarga, Nov 24 & 25, 2006
- 45) Faculty development programme on "Digital Signal Processor and its applications", at Basaveshwar Engineering College, Bagalkot, Sep 25-30, 2006
- 46) State level post graduate technical symposium (PRAGATI-06), at B. V. Bhoomaraddi College of Engineering and Technology, Hubli, Sep 09, 2006
- 47) Short-term training programme on "Internet Protocols" at Basaveshwar Engineering College, Bagalkot, Aug 21-26, 2006
- 48) Faculty development programme on "C# & .NET", at Basaveshwar Engineering College, Bagalkot, June 01-06, 2006
- 49) International Conference on Applied Computer Science (ACOS-06), organized by WSEAS, at Hangzhou, China, Apr 16- 18, 2006
- 50) Workshop on "Wireless Networks", at B. V. Bhoomaraddi College of Engineering and Technology, Hubli, Apr. 01-02, 2006
- 51) Workshop on "Enhancing Engineering Labs", at Sri Jayachamarajendra College of Engineering, Mysore, Feb. 22-24, 2006
- 52) INDO-UK workshop on "Ubiquitous Computing", at IISc, Bangalore, Nov. 16-17, 2005
- 53) Short term course on "Instructional Design and Delivery", at Basaveshwar Engineering College, Bagalkot – 587102, Aug. 08 -13, 2005
- 54) National level seminar on "Recent Trends in Computer Communications and Networking", at Basaveshwar Engineering College, Bagalkot-587102, Mar. 15-16, 2005
- 55) Short Term Training Programme on "Semiconductor Physics and VLSI Design", at Basaveshwar Engineering College, Bagalkot -587102, Feb. 07-19, 2005