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Education

	Degree	Year	Institute	Specialization
1	Ph.D	2016	Jawaharlal Nehru Technological University, Anantapur	Wireless Sensor Networks
2	M.E.	2002	University Visveswaraya College of Engineering, Bangalore	CSE
3	B.E.	1997	Kalpataru Institute of Technology, Tiptur	CSE

Professional Experience

	Date (from-to)	Designation	Organization
1	01-01-2011 to Till Date	Associate Professor	Siddaganga Institute of Technology, Tumkur
2	13-04-2007 to 31-12-2010	Assistant Professor	Siddaganga Institute of Technology, Tumkur
3	20-10-1999 to 12-04-2007	Lecturer	Siddaganga Institute of Technology, Tumkur

Positions held

- Panel of exam preparation for theory & lab
- PG Coordinator
- Member for BOE & BOS
- Timetable coordinator
- Test coordinator
- NBA coordinator
- ISO Coordinator
- Sigma coordinator
- Main/ Mini project coordinator
- Lab coordinator
- PG Technical seminar coordinator

- Worked as a Coordinator for publicity, certificates and mementos committee of international Conference to be organized by the dept. of CSE and ISE in 2013 & 2017.
- Worked as a Coordinator for gifts and mementos committee of CSI Student Convention held in the month of October 2012.
- Worked as a Coordinator member for certificates and mementos committee of Browse- Technical Symposium.

Affiliations of Professional organizations

- International Association of Engineers (IAENG)
- Institution of Engineers (India) [IEI]

Courses Taught

Undergraduate Courses

- Operating systems
- Finite Automata and Formal Languages
- Data Communications
- Computer organization.
- Computer Graphics
- Computer Networks -1
- Object Oriented Programming with C++
- Automata Theory and Compiler Design
- Foundations of Computer Programming
- Client Server Programming
- Distributed Operating Systems
- Computer System Design & Organization
- Theoretical Foundations of Computer science and Engineering.
- Problem Solving using C
- System Software & Compiler Design
- Digital Circuits and Computer Organization
- Compiler Design
- Theory of Computation

Postgraduate Courses

- Advanced Digital communications
- Distributed Systems
- Distributed Computing
- ADHOC Wireless Networks

- Advanced Operating Systems

Research Guidance

Sl. no	Name of the Scholar	Title	Year of completion
1	Hanumantharaju	Development of Fog analytics mechanisms for Smart applications based on IoT and Blockchain	Pursuing
2	Gayathri R	Enforcing routing approaches for enhancing quality of services in Wireless Sensor Network	Pursuing

Research Areas

- Wireless Sensor networks
- Distributed systems
- Theory of computation

Publications

Journals

- “An Energy Efficient Medium Access Protocol for Wireless Sensor Networks”, International Journal of Multidisciplinary in Cryptology and Information Security” , World Academy of Research in Science and Engineering.
- “Deactivation of reactive jammers in Wireless Networks” , International journal on Computational Intelligence & Engineering Applications, IPM Pvt. Ltd, India
- “Energy Efficient Hybrid Dual MAC Protocol for Wireless Sensor Network”, International Journal of Sensors, Wireless Communications and Control, 2016, 6, 1-10
- “An Energy-efficient Multi-channel MAC Protocol for Cluster Based Wireless Sensor Networks”, International Journal of Innovative Science, Engineering & Technology, Vol. 2 Issue 2, February 2015.
- “An Energy-efficient Receiver Oriented Hybrid Multi-channel MAC Protocol for Wireless Sensor Networks” International Journal of Sensors, Wireless Communications and Control, 2014, 4, 111-123.
- “Synchronized Overlapped Schedules for Clusters in Wireless Sensor Networks”, International Journal of Engineering and Techniques - Volume 1 Issue 3, May -June 2015.

- “Receiver Initiated Asynchronous Duty-Cycle MAC protocol for Burst Traffic”, International Journal of Engineering and Techniques - Volume 1 Issue 3, May - June 2015.
- “Reliable And Enhanced Energy Efficient Reactive Routing Protocol For IWSNS”, International Journal of Research in Engineering and Technology, Volume: 05 Issue: 06 | Jun-2016
- “BPR: An Efficient Technique to by-pass the Infected Areas in WSN”, International Journal of Engineering Research & Technology (IJERT), Vol. 5 Issue 06, June-2016
- “Black Hole Attack detection in Zone based Wireless Sensor Networks”, International Journal on Recent and Innovation Trends in Computing and Communication ISSN: 2321-8169, Volume: 5 Issue: 4 148 – 151
- “Types of Attacks in Wireless Sensor Networks”, International Journal of Innovations & Advancement in Computer Science, IJIACS, ISSN 2347 – 8616, Volume 6, Issue 8 August 2017.
- "Energy Efficient Routing for SDN based Internet of Things (IoT) Applications", International Journal of Scientific Development and Research (IJS DR), March 2018 IJS DR | Volume 3, Issue 3.
- “ Fault Detection Mechanisms In Wireless Sensor Networks-A Review”, International journal of scientific & technology research volume 7, issue 3 , march 2018
- “ Comparative study on the processing of Big Data using Apache Hadoop and Apache Spark “, Journal of Emerging Technologies and Innovative Research (JETIR) www.jetir.org, , Volume 6, Issue 4, April 2019.
- “ A Lightweight Secure Data Sharing Scheme For Mobile Cloud Computing”, Journal of Emerging Technologies and Innovative Research (JETIR), Volume 6, Issue 6, June 2019.
- ‘A Zero-Proof Knowledge Based on NFC for Data Authentication/Protection using Blockchain for Mobile Edge Computing’ in International Journal of Recent Technology and Engineering (IJRTE) , ISSN: 2277-3878 (Online), Volume-8 Issue-6, DOI:10.35940/ijrte.F8520.038620, March 2020. Page No.: 2547-2552.
- “Wagon - The Smart Wheelchair”, Journal of Emerging Technologies and Innovative Research (JETIR) www.jetir.org, August 2021, Volume 8, Issue 8.
- “Design of Context Cluster and Load Balanced Video Recommendation System in Cloud Computing”, International Journal of Information Retrieval Research (IJIRR), Jan 2022,, Volume 12, Issue 1, Pages 1-18, Publisher IGI Global. (Web of Science) DOI: 10.4018/IJIRR.2022010103
- Fog based smart healthcare: a machine learning paradigms for IoT sector. Multimed Tools Appl (2022). <https://doi.org/10.1007/s11042-022-13530-7>

- Leveraging the Fog based Machine Learning Model for ECG based Coronary disease prediction-. Int. J. Business Intelligence and Data Mining, Vol. 21, No. 3, July 2022 10.1504/IJBIDM.2022.10041200
- “A Copy-Move Image Forgery Detection Using Modified SURF Features and AKAZE Detect”, International Journal of Intelligent Engineering and Systems, Vol.16, No.4, Aug 2023, DOI: 10.22266/ijies2023.0831.02.
- ”Fog-Driven Approach for Distributed Intrusion Detection System in Auditing the Data Dased on Blockchain-Cloud System”, Cloud Computing and Data Science, ISSN: 2737-4106 , Volume 5, Issue 1, 2024. DOI: <https://doi.org/10.37256/ccds.5120243772>.
- “A Copy-Move Image Forgery Detection Using Modified SURF Features and AKAZE Detector”, International Journal of Intelligent Engineering and SystemsThis link is disabled., AUG 2023, 16(4), pp. 12–24. DOI: 10.22266/ijies2023.0831.
- ” Movement Mode Harmony Search Based Multi-objective Firefly Algorithm Feature Selection for Detecting the Security Threats in Virtual Machine”, International Journal of Intelligent Engineering and Systems, Volume 17, Feb, Year 2024, Pages 159-168 DOI:10.22266/ijies2024.0229.16
- “Chaos Reptile Search Algorithm Based Clustering and Routing for Internet of Things assisted Wireless Sensor Network”, International Journal of Intelligent Engineering and Systems, Vol.17, No.4, Aug 2024 DOI: 10.22266/ijies2024.0831.05.
- “VORONOI-KHHS approach coupled with EESC protocol for energy-efcient deployment and secure communication in WSNS “, International journal of information Technology, 24 Jan 2025.
- “Intrusion Detection System using Hybrid Reverse - Binary Meerkat Optimization Algorithm and Support Vector Machine with Improved Random Forest”, International Journal of Intelligent Engineering and Systems, Vol.18, No.4, May 2025 , DOI: 10.22266/ijies2025.0531.25
- Conference Proceedings
- “Energy Efficient Medium Access Protocol for Clustered Wireless Sensor Networks” , International Conference on Networks & communication, springer
- Shreenath KN, Vidyashree, “Location Based Detection Algorithm for Clone Attack in Wireless Sensor Network, Elsevier.
- “Topology Based Improved TDMA Protocol for Moderate Traffic in Wireless Sensor Networks”, Proceedings of International Conference on “Communication, Computation, Management & Nanotechnology” (ICN-2011), September 23-25, 2011

- “CMMAC: Optimized Collision Controlled Multi Channel MAC Protocol for WSN”, NCACA-2012 National Conference on Advances in Computer Applications. SSIT, Tumkur.
- Large Scale Efficient Clustering Using DBSCAN and Ensemble Techniques. International Conference on Advanced Informatics for Computing Research ICAICR 2020 , Advanced Informatics for Computing Research. 2020. Communications in Computer and Information Science, vol 1393. Springer, Singapore. https://doi.org/10.1007/978-981-16-3660-8_58.
- ” Secured Fog-Based System for Smart Healthcare Application”, Lecture Notes in Electrical Engineering, Volume 936, Year 2022, Pages 185-197 DOI:10.1007/978-981-19-5037-7_12
- ” Secured Storage of Information Using Audio Steganography”, Conference Paper Lecture Notes in Electrical Engineering, Volume 928, Year 2023, Pages 791-801, DOI:10.1007/978-981-19-5482-5_68
- “Wireless Level Monitoring of Interfacing Two-Tank System through User Datagram Protocol”, 2023 IEEE International Conference on Integrated Circuits and Communication Systems (ICICACS), Year: 2023 | Conference Paper | Publisher: IEEE
- “A Rapid Object Recognition Scenario Based on Improved YOLO-V3 Network”, 2023 International Conference on Evolutionary Algorithms and Soft Computing Techniques, EASCT 2023, Year OCT 2023
- DOI:10.1109/EASCT59475.2023.10393004
- ” Energy Efficient Communication using Enhanced Cat Swarm Optimization Algorithm’, 2023 International Conference on Evolutionary Algorithms and Soft Computing Techniques, EASCT 2023, Year OCT 2023.
- “Improved Moth Flame Optimization Based Cluster Head Selection and Data Aggregation Using Machine Learning Approach”. 6G Communications Networking and Signal Processing Proceedings of the International Conference, SGCNSP 2023, Lecture notes in electrical engineering, Springer

Book Chapters

- Fog Data Analytics: Systematic Computational Classification and Procedural Paradigm, in Fog Data Analytics for IoT Applications, Studies in Big Data 76.
- Enabling Technologies for Fog Computing in Healthcare 4.0: Challenges and Future Implications, Springer Nature Switzerland AG 2021, Fog Computing for Healthcare 4.0 Environments, Signals and Communication Technology, DOI: 10.1007/978-3-030-46197-3_7 July 2021.
- Development of an Efficient Monitoring System Using Fog Computing and Machine Learning Algorithms on Healthcare 4.0 in the book Deep Learning

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