




DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT
22 Mile, B.M Kaval, Udayapura, Kanakapura Road, Bangalore-560082.
(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE, New Delhi)
DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING
Accredited by NBA, New Delhi



Faculty Name	Dr. J.T.THIRUKRISHNA	
Designation	ASSOCIATE PROFESSOR	
Educational Qualification	B.Tech.(IT), M.E.(CSE), Ph.D.,	
Experience in Years	11 + Years	
Area of Interest	Data Science, Cyber Security, Wireless Sensor Networks,	
E-mail ID	drthirukrishna@dsatm.edu.in	

Educational Details

- **Ph.D** : Information and Communication Engg.(CSE), Anna University, Chennai-July 2018.
- **M.E** : Computer Science and Engineering (**First Class with Distinction**), SONA College of Technology, Salem- June 2010.
- **B.TECH** : Information Technology(**First Class**), K.S.R College of Engineering, Namakkal- May 2007.

Personal Details

- **Date of Birth:** 05.05.1985
- **Hobbies:** Playing Cricket, Cooking.
- **Languages Known:** English, Tamil

Professional Experience

- Presently working as an Associate Professor in the Department of Information Science and Engineering, Dayananda Sagar Academy of Technology & Management, Bangalore, India from December 2019 to till date.
- Worked as Associate Professor in the department of CSE at MVJ College of Engineering, Bangalore, India from January 2019 to December 2019
- Worked as Assistant Professor in Information Technology at SNS College of Technology, Coimbatore, Tamil Nadu, India from June 2010 to April 2018.

Publications in Book /Book Chapter

- Published a book title on “Cloud Application Development and Management, Unique Pub International Publisher, ISBN number: 978-81-954927-2-5.2022.
- Published a book title on “Network Design and Technologies”, Unique Pub International Publisher, ISBN number: 978-81-954927-3-2.2022.
- Published a book chapter in springer book series title "Implementation of Smart Parking Application Using IoT and Machine Learning Algorithms", Computer Networks and Inventive Communication Technologies, Proceedings of Fourth ICCNCT 2021, Print ISBN: 978-981-16-3727-8, Electronic ISBN: 978-981-16-3728-5.
- Published a book chapter title on “Implementation on fake news analysis using machine learning approaches” and the book title is “Machine learning and its applications”, publisher Dipti Press OPC Pvt. Ltd., Chennai, ISBN: 978-93-86923-47-9, October 2020.

Patent Publications

- Indian Patent Published on General Machine Learning model access point placement in reconfigurable wireless networks published on 10 05 2021. (Application No. 202141017934).

Publications in Journals

Publication in SCI/Web of Science/Scopus Indexed Journal

- **Thirukrishna J T**, Sanda Reddy Sai Krishna, Policherla Shashank, Srikanth S, Raghu V, “Survey on Diagnosing CORONA VIRUS from Radiography Chest X-ray images using Convolutional Neural Networks”, Wireless Personal Communication (2022), (Springer, SCI Indexed Journal) (<https://doi.org/10.1007/s11277-022-09463-x>)
- Senthil Kumar Swami Durai, Balaganesh Duraisamy and **Thirukrishna, J.T.** “Certain Investigation on Healthcare Monitoring for Enhancing Data Transmission in WSN”, International Journal of Wireless Information Networks, Springer, (Q3 and Web of Science Indexed). <https://doi.org/10.1007/s10776-021-00530-x>.
- Senthil Kumar Swami Durai, Balaganesh Duraisamy and **Thirukrishna, J.T.** “Fuzzy Interference System based Link Failure prediction in MANET”, Journal of Physics: Conference Series (Scopus Indexed), Volume. 1964, 2021. doi:10.1088/1742-6596/1964/7/072020.
- T. Daniya, **J. T. Thirukrishna**, B. S. Kumar and M. V. Kumar, "ICSA-ECNN based Image Forgery Detection in Face Images," 2021 International Conference on Computer Communication and Informatics (ICCCI), 2021, pp. 1-4, IEEE transactions doi: 10.1109/ICCCI50826.2021.9402302.
- Senthil Kumar Swami Durai, Balaganesh and **Thirukrishna, J.T.** A Novel Approach for QoS Enhancement with Revision Scheme Using SeDSR Protocol in Wireless Sensor Networks. Wireless Personal Communication (2021), (Springer, SCI Indexed Journal). <https://doi.org/10.1007/s11277-021-08466-4>.
- Senthil Kumar S, **Thirukrishna J T**, “OREA for improving data packet transmission in Wireless Sensor Networks with Cloud Security Mechanism”, International Journal of Cloud Computing (Inderscience, Scopus (Q4 Indexed), Vol. 9, Issue No. 2/3, pp. 245-257, 2020, DOI: 10.1504/IJCC.2020.109379
- Senthil Kumar S, **Thirukrishna J T**, “An Efficient QoS Based Data Packet Transmission in Wireless Sensor Networks Using OREA”, Wireless Personal Communications 113, 1839-1850 (2020). (Springer, SCI Indexed Journal). <https://doi.org/10.1007/s11277-020-07295-1>.
- **Thirukrishna J T**, Karthik S & Arunachalam V P, ‘Revamp energy efficiency in Homogeneous Wireless Sensor Networks using Optimized Radio Energy Algorithm (OREA) and Power-Aware Distance Source Routing protocol’, Future Generation Computer Systems (FGCS), EVISE (Elsevier, SCI Indexed Journal), Volume 81, pp. 331-339, 2018, ISSN: 0167-

Publication in Non-Refereed Journal

- ✓ "Efficient data Transmission in WSN using wearable sensors for Healthcare Monitoring." International Journal Of Advance Research And Innovative Ideas In Education 7, no. 2 (2021) : 446-457.
- ✓ "Detecting CORONA VIRUS Using Chest X-ray images." International Journal Of Advance Research And Innovative Ideas In Education 7, no. 2 (2021) : 440-445.
- ✓ "Data Security in Cloud Computing using Transparency Service Model", International Journal of Management, Technology and Engineering (UGC Journal), Volume IX, pp.3231-3236, Issue VI, JUNE/2019.
- ✓ "Gesture Controlled Home", International Journal of Management, Technology and Engineering (UGC Journal), Volume IX, pp.3222-3226, Issue VI, JUNE/2019.
- ✓ "Optimizing Spatio Temporal DRP for WRSNS using Heuristic based Constraints", IJRST, March 2017.
- ✓ "A Survey on Big Data Storage in Cloud", International Journal of Scientific Research and Development, Vol.2, Issue 09, 2014.
- ✓ "Rapid Decentralized Network Intrusion Defense System on Multiple Virtual Machines", International Journal of Computer Science Trends and Technology (IJCTST) Volume 2 Issue 1, Jan-Feb 2014 ISSN: (2347-8578).
- ✓ "Survey on localization of the Sensor nodes in Wireless Sensor Networks", International Journal Computer Science Trends and Technology, Vol. 2, Issue I, Jan-Feb 2014, (ISSN: 2347-8578).
- ✓ "Optimizing Energy Efficiency in Wireless Sensor Network Using LEACH Protocol", International Journal of Emerging Trends & Technology in Computer Science, Volume 2, Issue 2, March - April, 2013, (ISSN 2278-6856).
- ✓ "A Novel Survey on Cloud Security", International Journal of Electronics, Communication & Soft Computing Science and Engineering, Vol. 3, Issue I, November 2012, (ISSN: 2277-9477).
- ✓ "Optimizing Quality of Service Evaluation in IEEE 802.15.4 Networks", International Journal of Computer Applications & Information Technology, Vol. I, Issue III, November 2012, (ISSN: 2278- 7720).

Publications in International Conferences

- Senthil Kumar Swami Durai, Balaganesh Duraisamy and Thirukrishna, J.T., "An enhanced data transmission in WSN using Optimized Energy Algorithm for health care monitoring", International Conference on Innovations in Computer Science and Engineering (ICICSE-2021), 3-4 September 2021.
- Presented a paper titled "ICSA-ECNN BASED IMAGE FORGERY DETECTION IN FACE IMAGES", 11th INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION AND INFORMATICS 2021 IEEE sponsored, SSIET, Coimbatore held from 27-29 January 2021.
- Presented a paper titled "Data Security in Cloud Computing using Transparency Service Model", 2nd International conference on Innovations in Computing, Automation and Intelligent Information Systems held on 29th and 30th May, 2019 at MVJ College of Engineering, Bangalore.
- Presented a paper titled "Gesture Controlled Home", 2nd International conference on Innovations in Computing, Automation and Intelligent Information Systems held on 29th and 30th May, 2019 at MVJ College of Engineering, Bangalore.

- Presented a paper titled, “Optimizing Spatio temporal DRP for WRSNS using Heuristic based constraints”, 3rd International conference on Advanced Engineering and Technology for Sustainable Development, Held on 30th and 31st March 2017 at Karpagam College of Engineering.
- Presented a paper titled, “Sentimental Data Analysis on Social Media”, International conference on Green Intelligent Computing and Communication Systems, held on 10th and 11th March 2016 at Hindustan College of Engineering and Technology, Coimbatore.
- Presented a paper titled, “Finding and Locating Numerous Spoofing Adversaries in WSNs”, International conference on Advanced Control Systems Machines and Embedded Technology, held on 7th and 8th March 2014 at J.K.K.Natraja College of Engineering and Technology, Namakkal.
- Presented a paper titled, “Rapid Decentralized Network Intrusion Defense System on Virtual Machines”, International conference on Advanced Control Systems Machines and Embedded Technology, held on 7th and 8th March 2014 at J.K.K.Natraja College of Engineering and Technology, Namakkal.

Awards/Honor/Certification

- IEEE Senior Member.
- Received Award of Excellence in Research Award 2020-2021 from Novel Research Academy, Puducherry, India on 20th Jan. 2021.
- Certified on Palo Alto Networks Certified Cybersecurity Entry-level Technician (PCCET) exams on 15 07 2021, now certified Palo Alto Cyber security trainer.
- Received GLOBAL TEACHER AWARD 2019 from AKS Education Awards, Delhi, India on 15th September 2019.
- Guest of Honor, National Seminar on Recent Trends in Advanced Technologies conducted by Department of Computer Application, Nandha Arts and Science College, Erode on 17th Feb. 2020.
- Journal reviewer of Telecommunication Systems/SCI indexed, Journal of Pervasive and Mobile Computing/ SCI indexed, ETRI Journal (Wiley Publications)/SCI Indexed, Journal of Super Computing/ SCI Indexed, Journal of Benthamscience /Scopus Indexed
- Completed “Architecting with Google Compute Engine” online courses conducted by Google Coursera on April 2020.

Academic Activity

- UG Project Coordinator of CSE department (2 Semesters).
- PG Thesis guided 5 students.
- UG projects guided more than 50 students and Autonomous Accreditation and Re-Accreditation IT department Coordinator.
- Tier-II NBA Accreditation & NACC Accreditation and Re- Accreditation Department Coordinator.
- Served as a Coordinator of International Conference (ICSNS 2015 and ICSNS 2018).
- Served as a Coordinator of National Conference (NCNICS 11, 12, 13, 14, 16 and 17).
- SNS SRI Event manager for admission promotion activities.
- Served as Staff Coordinator for Department Association and conducted National Level Technical Symposium for many Times.
- Class Advisor for different batch students.
- Served as an effective tutor and counselor for the affairs of the students.
- Syllabus framed for various subjects in IT Autonomous syllabus.

- Semester Question paper prepared for various Autonomous Colleges and also paper valuation done in different autonomous colleges.
- Conducted guest lecture for various courses in IT department.

Faculty Development Activity

- Organized Entrepreneurship Development cell under 5+ Technical Session and seminar from MSME, and Industry Resource persons from Jan. 2021 to Dec.2021.
- Organized 3 FDP's from January to August 2020.
- Attended 15 + Webinars with two ATAL FDP's from March 2020 to August 2020.
- Completed Google cloud carrier readiness program on July 2020 with the specialization of "Architecting with Google Compute Engine" conducted by Google Coursera.
- Attended one-day seminar on "Big data Analytics and Hadoop ECO System" held on 9th Feb. 2018, organized by Dept. of MCA, SRM Institute of Science and Technology, Ramapuram, Chennai.
- Attended one-day national level research seminar on "Sponsored research funding opportunities through DRDO & Intellectual property rights opportunities and challenges in engineering and entrepreneurship", at SNS College of Engineering, Coimbatore on 30th November 2017.
- Attended one day Faculty Development Program on "Networking Simulation using Qualnet software", Dellsoft Technologies on 17th Oct. 2017.
- Attended one day seminar on "Smart GRID" held on 2nd Dec. 2016, organized by Dept. of Electrical and Electronics Engineering - Kumaraguru College of Technology, Coimbatore.
- Attended one day international seminar on "Andes Embedded Processor : IoT on Wearable Technologies & Sharing and Controlling the Internet of Things" held on 26.02.2015, organized by Dept. of CSE – SNS College of Technology, Coimbatore
- Participated five days (National Institute of Technical Teachers Training and Research) NITTR Faculty Development Programme on "Instructional Design and Delivery System" held on 06.01.2015 to 10.01.2015, organized by SNS College of Technology, Coimbatore.
- Participated one day workshop on "Research Methodology" held on 16.12.2014, organized by Anna University, Chennai.
- Attended one day workshop on "Bigdata Analytics" conducted by Department of Software Engineering Sri Krishna College of Engineering and Technology, Coimbatore on 11th Oct. 2014.
- Participated two days hands on training on WEKA organized by department of computer technology, Kongu Engineering College, Erode 25.09.2014 and 26.09.2014.
- Attended one day workshop on "Data mining Using R" organized by Sri Ramakrishna Engineering College, Coimbatore on 13th Sep. 2014.
- Attended two days seminar on "Enhanced Research with Target and Results" conducted by Dept. of CSE, SNS College of Technology, Coimbatore 13th and 14th Aug. 2014.
- Attended seven days FDTP on "Service Oriented Architecture" conducted by Anna University, Chennai from 3rd to 9th July 2014
- Participated in AICTE sponsored national seminar "Green Computing for Sustainability" at SNS College of Technology, Coimbatore on 24th Jan. 2014.
- Participated in DBT sponsored national seminar "Gene Expression Data Analysis Using Machine Learning and Soft Computing Techniques" at Kongu Engineering College, Erode 6th and 7th Sep. 2013.
- Attended two days CSIR sponsored seminar on "High Performance Computing and Cyber Security" conducted by Dept. of IT, SNS College of Technology. Coimbatore, 22 and 23 Jan.2013
- Participated in Faculty Development Training Program "CS2402-Mobile & Pervasive

Computing” at SNS College of Technology, Coimbatore on 3rd to 9th Jan. 2013, conducted by Center for Faculty Development, Anna University, and Chennai.

- Participated in Two Days Workshop on “Emerging Trends And Issues In Cloud With Green Computing” at SNS College of Technology, Coimbatore on 27th & 28th Dec. 2012.
- Participated in Four Days Workshop on “Object Oriented Analysis and Design Using UML with Essentials of Rational Software Architect” at SNS College of Technology, Coimbatore on 1ST to 4th Feb. 2012 conducted by IBM.
- Participated in one day workshop on “WEKA-Data Mining Tool” at Government College of Technology (GCT), Coimbatore on 29th Sep. 2011.
- Participated in one-day Workshop on “Simulation Tools for Grid and Cloud Computing” at SNS College of Technology Coimbatore on 24th Sep. 2011.
- Participated in two days Seminar on “Wireless Technologies on Medical Informatics” at Sri Krishna College of Engineering and Technology, Coimbatore on 25th and 26th February 2011.
- Participated in Two Days Workshop on “Digital Image Processing” at Vivekananda College of Engineering for Women, Tiruchengode on 7th and 8th September 2010.
- Participated in two day’s Workshop on “Web 2.0 Tools and Rich Internet Application” at V.L.B Janakiammal College of Engineering and Technology, Coimbatore on 27th and 28th August 2010.
- Attended one day workshop on “Advanced Developer Technologies” organized by Microsoft Corporation at Gnanamani College of Technology, Rasipuram on 31st of July 2009.
- Participated in two day’s workshop on “Infosys Soft Skills” at Sona College of Technology, Salem on 14th and 15th of November 2008.
- Participated one day seminar on “Security Issues in Modern Computing Era” organized by CSI (Computer Society of India), Coimbatore on 18th December 2008.

Research Activity

- Received financial assistance for innovative project 2021 from VTU, Bangalore, titled Efficient Data Transmission in WSN using Wearable Sensors for Healthcare Monitoring.
- FDP Proposal submitted to VGST, Bangalore, “Machine Learning in Medical Image Processing: Research Issues, Innovation and Applications”, 2021.
- Research proposal has been submitted to DST-SERB (CRG) (Reference No: CRG/2019/000244) titled “Efficient data transmission in Wireless Sensor Networks Using Energy Strengthen Algorithm for healthcare monitoring” amount Rs.19,70,209.00.
- Workshop proposal submitted to NASSDOC (ICSSR) titled “Machine Learning with Python and its Application” 2019.
- FDP proposal submitted to VTU (TEQIP-CELL) titled “Artificial Intelligence and Machine Learning with Python” 2019.
- Seminar proposal submitted to CSIR titled “Block Chain Technology for Digital India”, 2019.

Professional Membership

1. IEEE Senior Member– Membership ID: 94460598
2. Life Member in CRSI– Membership ID: L/1056
3. Life Member in Indian Society for Technical Education – Membership ID: LM127878
4. Global Member in Internet Society – (Membership ID: 2226666)
5. Member in International Association of Engineers – (Membership ID: 136948)

EXTRA CURRICULAR ACTIVITIES

- Winner of Anna University Zonal Tournaments 2009-10 Cricket Match held at Jayam College
- of Engineering and Technology, Dharmapuri and also Scored “105 runs, 54 runs” on March 3rd-7th, 2010 organized by Anna university, Coimbatore.

- Played cricket match for ‘A’ division cricket league match at the ROCK Cricket Club, Salem organized by Salem District Cricket Association (SDCA) during 2009-2012.
- Played intra-college cricket tournaments “SYSCOL Trophy” conducted by JSW Steels held at Salem, 2009.
- Lead captainship for a Salem zone “Anna University Inter-Zonal Tournament 2005-06 Cricket Matches” venue at St. Josephs College of Engineering, Chennai organized by Anna University, Chennai.
- Lead captainship and played intra-college cricket tournaments “K.S.R TROPHY” during the year of 2003-2006.
- Played district level cricket tournaments for DCAN (DISTRICT CRICKET ASSOCIATION NAMAKKAL) various age categories such as “UNDER16, UNDER17, UNDER19, UNDER21& also leading captainship” conducted by Tamil Nadu Cricket Academy and my performance published in Hindu Newspaper.

Contact Details

Dr. J.T.Thirukrishna M.E., Ph.D.,SMIEEE., LCRSI., LMISTE

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Department of Information Science and Engineering,

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My Vision

- Challenging opportunities both in academics and administrative activities for the all-round development of the Students, Institution, implementing National Educational Policy and to make students face the world intelligently, wisely and to make him/her a good human being.