

Faculty Profile



Dr. C. Yesubai Rubavathi, M.E., Ph.D

Professor – CSE

Date of Joining: 04.01.2024

HIGHLIGHTS:

- Number of Journal Publications: 17
- H-Index: 4
- Project Funding Received: 01
- Patents Published: 02

PROFESSIONAL LINKS:

- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=39862301500>
- Google Scholar ID:
<https://scholar.google.com/citations?user=7Fk8RTwAAAAJ&hl=en>
- Anna University Faculty ID: 292472
- AICTE Faculty ID: 1-3586750699
- Anna University Supervisor ID: 3140035
- LinkedIn: <https://www.linkedin.com/in/yesubai-rubavathi-c-yesubai-rubavathi-c-5b8b49216/>
- ORCID ID: <https://orcid.org/0000-0002-1083-8347>

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 16 Years 3 Months
- Industrial Experience: Nil

AREA OF SPECIALIZATION:

- Deep Learning
- Pattern Recognition
- Compiler Design
- Theory of Computation
- Operating Systems
- Data Structures

Ph.Ds AWARDED WITH DETAILS:

| S:No | Name of Scholar | Title of Thesis | Year of Completion | Full Time/Part Time |
|-------------|------------------------|--|---------------------------|----------------------------|
| 1 | Anitha C | EFFICIENT ENERGY AWARE RESOURCE MANAGEMENT IN FOG COMPUTING | 22.11.2024 | Full Time |
| 2 | Ragavan N | AN ENHANCED BIG DATA PROCESSING MODEL FOR DRILL DOWN SEARCH ENGINE WITH CONTENT MINING CRAWLER | 12.04.2023 | Full Time |

Ph.Ds GUIDING:

- Full Time Scholars: 1
- Part Time Scholars: 8

PATENTS PUBLISHED/GRANTED:

- A Patent Published on 07/07/2023, Appli.No: 202341041190 A, titled “Water Purification System Using Organic Seeds”
- A Patent Published on 06/11/2021, Appli.No:202141050902 titled “Enhancing Machine Learning Using Dynamic Feature Selection in Cyber Security”
- A patent published on 17/05/2019, Appli.No:201941013978 titled “Smart Robotic Bio-Medical Waste Segregator”.

COURSES CERTIFIED:

- Attended Red Hat Certified System Administrator Linux course for 6 days
- Completed NPTEL course on Compiler Design, Analysis of Algorithm, Internet of Things

SPECIAL SESSIONS DELIVERED:

- Keynote Speaker on the Title Internet of things at G.U.Pope College of Engineering, Tuticorin on July 21st 2017.

JOURNAL PUBLICATION

- M., Ramnath, M. C., Yesubai Rubavathi, C. High-precision malware detection in android apps using quantum explainable hierarchical interaction network, Knowledge-Based Systems, 2025, SCI, Annexure I
- U., Lenin Marksia, U, C., Yesubai Rubavathi, C, Accurate segmentation of COVID-19 infected regions in lung CT scans with deep learning, Neural Computing and Applications, 2024.[SCI]
- J. Priskilla Angel Rani1, C. Yesubai Rubavathi2Enhancing river and lake wastewater reuse recommendation in industrial and agricultural using AquaMeld techniques, PeerJ Computer Science, November 29, 2024[SCI]

- Ramnath M 1, Yesubai Rubavathi C, Enhancing AppAuthentix recommender systems using advanced machine learning techniques to identify genuine and counterfeit android applications, November 20, 2024
- Sathish. C, and Yesubai Rubavathi. C, Security in IoT Applications Using Markov's Fusion-based MM Ring Toss Blockchain", Ad Hoc & Sensor Wireless Networks, Vol. 0, pp. 1–30, DOI: 10.32908/ahsw.n.v56.9111[SCI]
- Sathish C and Yesubai Rubavathi C. 2023. Utilizing Block chain in the Internet of Things for an Effective Security Sharing Scheme. KSII Transactions on Internet and Information Systems, 17, 6, (2023), 1600-1619. DOI: 10.3837/tiis.2023.06.004[SCI]
- C.Anitha, C.Yesubai Rubavathi, A Novel Optimal Deployment Algorithm for Fog Computing Nodes in Intelligent Logistics System with Efficient Energy Management and Load Balancing," Ad Hoc & Sensor Wireless Networks", Accepted,[SCI].
- C Sathish, C Yesubai Rubavathi, IoT Based Blockchain Methods for Data Association Technique for Secure Intelligent Contract, International Journal of Intelligent Systems and Applications in Engineering, Vol.11,No.11,Pg:175-188,2023.[SCOPUS]
- C.Sathish, C Yesubai Rubavathi, A survey on Blockchain mechanisms (BCM) based on internet of things (IoT) applications, Multimedia Tools and Applications, Volume 81, Issue 23, Pages: 33419-33458, 2022 [SCI]
- N.Ragavan, C Yesubai Rubavathi, A novel big data storage reduction model for drill down search, COMPUTER SYSTEMS SCIENCE AND ENGINEERING, Volume 41, Issue: 1, Pages: 373-387,2022 [SCI]
- Yesubai Rubavathi C, 'Combined chromatic local textural features for image retrieval system' International Journal of Data mining and Bio-informatics,Vol.15,No.2, ISSN: 1743-8195[SCOPUS]
- Sheik dawood M , A Fardhan Ahmed, M. Jehosheba Margaret, C.Yesubai Rubavathi , 'Armoured Modular and Non-Modular Vehicle: A Survey', International Journal of Engineering and Advanced Technology,ISSN:2249-8958,Vol.8,No.3,2019 [SCOPUS]
- Shahana K, C.Yesubai Rubavathi, 'Automated Vulnerability Testing Tool', Zeichen Journal, ISSN No: 0932-4747, Vol. 6, No. 7, 2020 [SCOPUS]
- Yesubai Rubavathi C, Ravi Ramraj 'A Novel Local Mesh Colour Texture Pattern for Image Retrieval System', Elsevier-AEUE-International Journal of Electronics and Communications, Vol.70,No.3,pp.225-233,2016,IF-2.9. [SCI]
- Yesubai Rubavathi C, Ravi Ramraj 'Opponent Color and Curvelet Transform Based Image Retrieval System Using Genetic Algorithm', World Academy of Science, Engineering and Technology-International Journal of Computer, Electrical, Automation, Control and Information Engineering, Vol.9, No.9, 2015,pp.1919-1926,2015.
- Yesubai Rubavathi C, Ravi Ramraj 'Local Mesh Co-Occurrence Pattern for Content Based Image Retrieval', World Academy of Science, Engineering and Technology-International Journal of Computer, Electrical, Automation, Control and Information Engineering, Vol.9, No.6,pp. 1364-1369,2015.

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- M. Ramnath, C. Yesubai Rubavathi, "Recommendations of Smart Phone Applications According to Customer Reviews and Capabilities", ICAISS, August, 2023 IEEE Explore.
- S. M. Murali, S. T. Shri, P. Roshini, C. Y. Rubavathi, R. S. Krishnan and K. L. Narayanan, "Smart Solar Powered System for Unauthorized Logging," 2023 International Conference on Inventive Computation Technologies (ICICT), Lalitpur, Nepal, 2023, pp. 1644-1649, doi: 10.1109/ICICT57646.2023.10134127
- G. Aravind Swaminathan, A. Ahila, G. Vijayarani, C. Yesubai Rubavathi, Jeenath Shafana, "Energy conservation using multiple mobile sink routing with dynamic cluster head selection for WSN" AIP Conference Proceedings 2518, 060004 (2022), <https://doi.org/10.1063/5.0110026>

- M. Ramnath, G. Twinkle Geojini and C. Y. Rubavathi, "Feature Adaptive Developmental Mechanisms for Mobile Apps Recommendations System using the Nearest Centroid Classification Algorithm" April 2023 DOI:10.1109/ICOEI56765.2023.10125664, Conference: 2023 7th International Conference on Trends in Electronics and Informatics (ICOEI)
- C. Yesubai Rubavathi, J. Diofrin, "Diabetes Foot Ulcer Diagnosis using Fast Convolution Neural Network" April 2023, DOI:10.1109/ICNWC57852.2023.10127332, Conference: 2023 International Conference on Networking and Communications (ICNWC)
- S. Malaiarasan, R. Ravi, D.R. Maheswari, C. Yesubai Rubavathi, "Towards Enhanced Deep CNN for Early And Precise Skin Cancer Diagnosis" April 2023, DOI:10.1109/ICNWC57852.2023.10127521, Conference: 2023 International Conference on Networking and Communications (ICNWC)
- C. Yesubai Rubavathi, Machine Learning Based Real Time Water Quality Monitoring System, "3 rd International Conference on Artificial Intelligence and Smart Energy (ICAIS 2023), 2-4 February 2023.
- J Priskilla Angel Rani, R Sujeethra, C Yesubai Rubavathi, Prediction of Water Quality using Artificial Neural Network, 2022 4th International Conference on Smart Systems and Inventive Technology (ICSSIT), pages: 992-999.
- N. Ragavan, C. Yesubai Rubavathi, Crawler Framework for Category Search Engine, 2020 International Conference on Emerging Trends in Information Technology and Engineering (ic-ETITE), Pages 1-5
- C. Yesubai Rubavathi, Ravi Ramraj, International Conference on Advanced Computing , Machines & Embedded technology (ICACT 2013), "CBIR using Curvelet Transform ", 2012
- C. Yesubai Rubavathi, Ravi Ramraj, National Conference on Computer vision, Graphics and Image Processing under the topic of "Texture Segmentation using fused feature sets", 2014
- C. Yesubai Rubavathi, International Conference on Advanced Computing and Communication under the topic of "Creation of Facial Expressions Using Elastic Body Spline", 2007
- C. Yesubai Rubavathi, National Conference on "Research and application of Information Technology under the topic of "Radioscopy in Text Mining ", 2012.
- N. Ragavan, C. Yesubai Rubavathi, National Conference on Hi-Tech Trends in Engineering Computational Technologies under the topic of 'Distributed Web Crawler Architecture for Category Support Search Engine', at SIT, March 2019.

WORKSHOP/SEMINAR/FDP:

- One Week National Level Online FDP on Societal Applications of Machine Learning, 26-30 December 2022
- AICTE Learning and Academy, online Elementary FDP on "Block chain Technology", 23-08-2021-27-08-2021 by GCE, Dharmapuri.
- AICTE sponsored Online Short term Training Programme Series I on "Deep Learning Applications and Challenges in Big Data Analytics" August 2020.
- One day National level workshop on Role of IPR in Innovation Management, Academic-Industry Collaboration, SIT, Tamilnadu, Feb, 2019.
- Short term course on Deep Learning: Theory and Practice, IIT Varanasi, Dec, 2018.
- Received NPTEL online course certificate in Internet of Things, Dec 2017.
- FDP on Identification of Cyber Criminals Using Cyber Forensics and its Tools, FX Engg College, April, 2014.
- 3 days Programme on Image Processing and Supporting Tools (9th to 11th March 2012), Anna University Campus.

- Two Days National Workshop on Advanced Image Processing Techniques using MATLAB (19th & 20th October 2012)
- National Workshop on Smart Ph.D planning (10th and 11th Feb 2012) ,RMD Engg College
- Effective Writing of Technical Papers (7th to 8th July 2012) at NIT, Trichy

KEY RESPONSIBILITIES TAKEN

- Worked for the ISO 9001:2001 Certification for the college
- Worked for the NBA Certification for the Department
- Organized national level workshop for the Department
- Student advisor for the department
- Doctoral Committee Member for the PhD Research Scholar in Anna University