

Dr.Arulmurugan Ramu

Associate Professor

Dept. of Computational Science and Software

Engineering

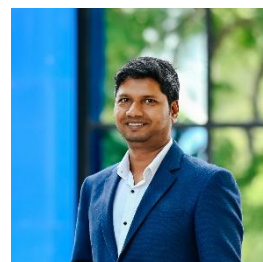
Heriot-Watt University-Aktobe (Kazakhstan campus)

IEEE senior member

ACM Senior member

Email ID: arulmr@gmail.com

Phone.no: +77079187604

Google scholar: <https://scholar.google.com/citations?l=en&user=vGGhoQ8AAAAJ>Scopus: <https://www.scopus.com/authid/detail.uri?authorId=56996013100>Publons: <https://publons.com/researcher/2669989/arulmurugan-ramu/>Orchid: <https://orcid.org/0000-0003-1030-9565>DBLP: <https://dblp.org/pid/235/6780>

Listed in Top 2% Most Influential Scientists (Single Year) in 2022 Stanford University list
(<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/4>)

S.no	Research Indexing	Citations	h-index
1	Scopus	965	13
2	Google Scholar	1716	18
3	Web Science	143	6

EDUCATION

- 2003-2007 *B.Tech(Information Technology)* Anna University, India
- 2007-2009 *M.Tech(Information Technology)* Anna University, India
- 2011-2015 *PhD(Information and Communication Technology)* Anna University, India

RESEARCH SPECIALIZATION

- Artificial Intelligence and Machine Learning
- Deep Learning
- Natural Language Processing
- Computer Vision

DETAILS OF ALL TEACHING SUBJECTS (THEORETICAL COURSE AND LAB SPECIALIZATION)

- Python with DSA
- NLP
- Database Management
- Python Programming
- AI and ML
- Digital Systems
- Software Engineering
- Programming Language -Java,C
- OOAD
- Operating System Principles
- Data structure algorithms and Analysis

TEACHING EXPERIENCE

- Jan 2025- Till date **Associate Professor** (4 months) in Department of Computer Science, Heriot-Watt University, Aktobe Campus, Kazakhstan
Subjects taught: Data structure and Analysis, Artificial Intelligence
- Feb 2023- Dec 2024 **Associate Professor** (1 year 10 months) in Department of Information Technology, Mattu University, Ethiopia
Subjects taught: Database Management, Distributed System, NLP
Research supervisor in Mattu University
- 2022-2023: **Associate Professor** (9 months) in Department of Computer Science and Engineering, CMR University, Bangalore
Subjects taught: Database Management, Python programming, WebProgramming, Operating System Principles
- Sep 2021- Feb 2022: **Associate Professor** (6 months) in Department of Information Technology, GRIET Hyderabad
Subjects taught: Database Management, Java programming, AI, Operating System Principles
- Jul 2018-Aug 2021: **Assistant Professor** (3 yrs. 1 month) in Department of Computer Science and Engineering, Presidency University, Bengaluru, India
Subjects taught: Digital Design, Machine learning, Image Processing, Fundamental Data Structures, Basics in Java Programming, Programming in Python. Research supervisor for PhD

- May 2012- Apr 2018: **Assistant Professor** (5 yrs. 11 months) in Department of Information Technology, Bannari Amman Institute of Technology, Sathyamangalam, India
Subjects taught: Digital Design, C++ Programming, Operating Systems, Database Design and Implementation, Fundamental Concepts of Computer Science, Basics in Java Programming, Database Systems, Operating Systems
- Sep 2009- May 2012: **Assistant Professor** (2 yrs. 9 months) in Department of Information Technology, SNS College of Engineering, Coimbatore, India
Subjects taught: OO Design and Development, Data Structures and Algorithms Web Application Development, Fundamental Concepts of Computer Science, Computer Networks

PG(M.Sc and M.Tech) PROJECTS GUIDED

2013-2018

No of PG students guided:2

- 1) Student name: A Subamanikandan (M.Tech-IT),Bannari Amman Institute of Technology,India
Title supervised “An effective Text Mining on use of side information for Clustering”
- 2) Student name: LaxmiPriya.M.R (M.Tech-IT), Bannari Amman Institute of Technology,India
Title supervised: “A Novel Framework for Face Recognition Using ASM and Sparse Coding”

2023-2024

No of PG students guided:2

- 1) Student name: Abebayehu Meseret(M.Sc-IT),Mattu University, Ethiopia
Titled supervised: “Custom Fraud Analysis using Deep Learning
- 2) Student name:Mulusew Bekele Agajo(M.Sc-IT), Mattu University, Ethiopia
Titled supervised: “Analysis of Different batch size in deep learning model for detection of Enset leaf Bacterial wilt disease.

2024-2025

No of students guided:4

- 1) Student name: Hirut Mekonen Firissa (M.Sc-IT), Mattu University, Ethiopia
Titled supervised: “Impact of Commonly used optimizers and learning rate in the performance of the transfer learning model during the detection of Pneumonia”
- 2) Student name: Mekdes Solomon(M.Sc-IT), Mattu University, Ethiopia
Titled supervised: “BERT-Based Hybrid deep learning approach sentiment analysis for Afan ormo text
- 3) Student name: Diro Tolosa Goda (M.Sc-IT), Mattu University, Ethiopia

Titled supervised: “Afaan Oromoo Textal Entailment Classification using Deep learning approach”

- 4) Student name: Teshale Mengesha Kochito (M.Sc-IT), Mattu University, Ethiopia
Titled supervised: “Kafi-Noonoo Text Summarization with a Deep learning approach”

FUNDED PROJECTS

Title of Project	Amount	Project type	Duration	Role played
BERT-Based Hybrid DeepLearning Approach Sentiment Analysis for Afan Oromo Text	ETB-50000	Seed Research funded Mattu University, Ethiopia	6 months	Principle Investigator
Pepper Leaf Diseases Detection Using Hybrid Techniques In Deep Learning	ETB-50000	Seed Research funded Mattu University, Ethiopia	6 months	Principle Investigator

LIST OF TOOLS, TECHNOLOGIES, PLATFORMS USED FOR TEACHING AND RESEARCH

LMS used for Teaching:

- Google Classroom
- Moodle
- Canvas (Currently I am using at Heriot-Watt University for Teaching)
- Quizizz

Assessment and Feedback Tools:

- Google Forms
- Quizlet
- Turnitin

JOURNAL PUBLICATIONS

1. Thamaraimanalan T, Anandakumar Haldorai, Arulmurugan Ramu and Mariyappan K, “Performance Evaluation of Shor Algorithm on Simulated Quantum Hardware with Circuit Level Analysis”, Journal of Machine and Computing, vol.5, no.3, pp. 1944-1957, July 2025, <https://doi.org/10.53759/7669/jmc202505152>.(Q2, SCOPUS)
2. Rundasa, D. G., Ramu, A., Adugna, T. D., Teshome, C. S. & Tasew, D. (2025). Research on Deep Neural Network for Afaan-Oromo Language Text-to-Speech Synthesis. Journal of Computer Science, 21(5), 1037-1048. <https://doi.org/10.3844/jcssp.2025.1037.1048> (Q4, SCOPUS)

3. Teshome Debushe Adugna, Arulmurugan Ramu and Anandakumar Haldorai, "A Review of Pattern Recognition and Machine Learning", Journal of Machine and Computing, pp. 210-220, January 2024. doi: 10.53759/7669/jmc202404020.(Q3, SCOPUS)
4. R. Subha, A. Haldorai and A. Ramu, "Artificial intelligence model for software reusability prediction system," Intelligent Automation & Soft Computing, vol. 35, no.3, pp. 2639–2654, (2023).<https://doi.org/10.32604/iasc.2023.028153> (Q2, SCI)
5. Arulmurugan Ramu, Teshome Debushe Adugna and Anandakumar Haldorai, "The Contribution of Innovation, Science and Technology in Enhancing Renewable Energy", Journal of Computing and Natural Science, vol.3, no.3, pp. 158-168, July 2023. doi: 10.53759/181X /JCNS/202303015.
6. Naik, J.M., Ramu, A., Jeevitha, S. et al. Control system integration methods to maintain the position and speed of the robot in spatial forbidden areas. Int J Syst Assur Eng Manag (2022). <https://doi.org/10.1007/s13198-022-01730-1>(Q2, SCOPUS)
7. Vignesh, G.D., Ramu, A., Raja, J.T. et al. Sensor data fusion techniques in the construction of generalized VORONOI graph for on-line motion planning in robot navigation. Int J Syst Assur Eng Manag (2022). <https://doi.org/10.1007/s13198-022-01773-4> (Q2,SCOPUS)
8. Arulmurugan Ramu & Anandakumar Haldorai,"Canonical Correlation Analysis Based Hyper Basis Feedforward Neural Network Classification for Urban Sustainability". Neural Process Lett 53, 2385–2401 (2021). <https://doi.org/10.1007/s11063-020-10327-3> (Q2, SCI)
9. A, Murugan ,Haldorai, S, Ramu, A. "Evolution, challenges, and application of intelligent ICT education: An overview".Comput Appl Eng Educ.(2021); 29: 562–571. <https://doi.org/10.1002/cae.22217> (Q1, SCI)
10. Arulmurugan Ramu, Anandakumar Haldorai & Subha, R., "An Optimal Approach to Enhance Context Aware Description Administration Service for Cloud Robots in a Deep Learning Environment". Wireless Pers Commun 117, 3343–3358 (2021). <https://doi.org/10.1007/s11277-021-08073-3> (Q2, SCI)
11. Senthilkumar, D., & R, Arulmurugan. (2021), "Gaussian bilateral filtered discrete Hartley feature transformation based Infomax boosting for hyperspectral image

classification". International Journal of Intelligent Networks, 2,195–203.
<https://doi.org/10.1016/j.ijin.2021.11.001> (Q1, SCOPUS)

12. Arulmurugan Ramu & Anandakumar Haldorai, (2020), "Security and Channel Noise Management in Cognitive Radio Networks". Computers & Electrical Engineering, 87, 106784. <https://doi.org/10.1016/j.compeleceng.2020.106784>. (Q1, SCI)
13. Arulmurugan Ramu & Anandakumar Haldorai ,Devikanniga, D. (2020) Efficient Diagnosis of Liver Disease using Support Vector Machine Optimized with Crows Search Algorithm. EAI Endorsed Transactions on Energy Web, 7: e10. ISSN2032-944X, <https://eudl.eu/doi/10.4108/eai.13-7-2018.164177> (Q4, SCOPUS)
14. Arulmurugan Ramu & Anandakumar Haldorai (2019). Optimization, modelling and simulation for evolutionary computation. Journal of Advanced Research in Dynamical and Control Systems, 2019, 11(9), pp. 111–115<https://doi.org/10.5373/jardcs/v11i9/20193161> (Q4, SCOPUS)
15. Arulmurugan Ramu & Anandakumar Haldorai. (2019). Analysis of Mobile Management Processes and Modeling", Journal of Advanced Research in Dynamical and Control Systems, 2019, 11(8), pp. 257–262 (Q4, SCOPUS)
16. Arulmurugan Ramu & Anandakumar Haldorai. (2019). "Computational Mining Algorithms for Future Technologies" Journal of Advanced Research in Dynamical and Control Systems, 2019, 11(7), pp. 817–822 (Q4, SCOPUS)
17. Arulmurugan Ramu & Anandakumar Haldorai. (2019), "Supervised, Unsupervised and Reinforcement Learning - A Detailed Perspective", Journal of Advanced Research in Dynamical and Control Systems, 2019, 11(6), pp. 429–433(Q4, SCOPUS)
18. R. Arulmurugan and H. Anandakumar(2018),"Region-based seed point cell segmentation and detection for biomedical image analysis", International Journal of Biomedical Engineering and Technology 2018 27:4, 273-289.<https://doi/abs/10.1504/IJBET.2018.094296>(Q4, ESCI)
19. Arulmurugan, R., & Sengottuvelan, P. (2014). Classification of Digital Images using fusion elevated order Classifier in wavelet Neural Network. J. Comput. Sci., 10(9), 1827-1838. (Q4, SCOPUS)
20. P. Sengottuvelan, R. Arulmurugan, "Object Classification Using Substance Based Neural Network", Mathematical Problems in Engineering, vol. 2014, Article ID 716782, 10 pages, 2014.<https://doi.org/10.1155/2014/716782> (Q2, SCI)

BOOK PUBLISHED

1. Book titled “Cognitive Social Mining Applications in Data Analytics and Forensics”, Publisher: IGI Global; 1st edition October 2018, ISBN: 9781522575221
2. Book titled “Computational Intelligence and Sustainable Systems: Intelligence and Sustainable Computing (EAI/Springer Innovations in Communication and Computing)”, 1st ed. March 2019 Edition. ISBN 978-3-030-02674-5
3. Book titled “Big Data Analytics for Sustainable Computing”, IGI Global publisher, September 2019. ISBN: 9781522597506
4. Book titled “Computing and Communication Systems in Urban Development A Detailed Perspective”, Springer Publication, ISBN 978-3-030-26013-2, 2019
5. Book titled “Business Intelligence for Enterprise Internet of Things”, Springer Publication, ISBN 978-3-030-44407-5
6. Book titled “Advances in Computing, Communication, Automation and Biomedical Technology Hardcover – 1 January 2020, ISBN 978-8195000807

BOOK CHAPTER PUBLISHED

1. Book chapter titled "Early Detection of Lung Cancer using Wavelet feature descriptor and Feed Forward Back Propagation Neural Networks classifier" in Springer - Computational Vision and Bio Inspired Computing, Lecture Notes in Computational Vision and Biomechanics, February 2018, DOI:10.1007/978-3-319-71767-8_9 (SCOPUS)
2. Book chapter titled “The Impact of Big Data Analytics and Challenges to Cyber Security” in Handbook of Research on Network Forensics and Analysis Techniques, IGI Global publishers, March 2018, ISBN13: 9781522541004, DOI:10.4018/978-1-5225-4100-4. (SCOPUS)
3. Book chapter titled “Social Aware Cognitive Radio Networks: Effectiveness of Social Networks as a Strategic Tool for Organizational Business Management” in Social Network Analytics for Contemporary Business Organizations, IGI Global publishers, April 2018 DOI: 10.4018/978-1-5225-5097-6.ch010. (SCOPUS)
4. Book chapter titled “An Intelligent-Based Wavelet Classifier for Accurate Prediction of Breast Cancer” in Intelligent Multidimensional Data and Image Processing, 306-319, June 2018. DOI: 10.4018/978-1-5225-5246-8.ch012. (SCOPUS)
5. Book chapter titled “Internet of Things (IoTs) Evolutionary Computation, Enterprise Modelling and Simulation” in Business Intelligence for Enterprise Internet of Things, June 2020 (SCOPUS)
6. Book chapter titled “Organization Internet of Things (IoTs): Supervised, Unsupervised, and Reinforcement Learning” in Business Intelligence for Enterprise

Internet of Things, June 2020(SCOPUS)

7. Book chapter titled “Enterprise Architecture for IoT: Challenges and Business Trends” in Business Intelligence for Enterprise Internet of Things, June 2020(SCOPUS)
8. Book chapter titled, “A Study on Various Bioinspired Algorithms for Intelligent Computational System” in New Trends in Computational Vision and Bio- inspired Computing, June 2020, ISBN:978-3-030-41861- 8(SCOPUS)
9. Book chapter titled “A Security Scheme Based on Blockchain Technology With Modified Extreme Gradient Boosting Decision Tree-Based Trust Management System for Vehicular Net” in Leveraging VANETs and Blockchain Technology for Urban Mobility, IGI GLOBAL, May 2025(SCOPUS)

CONFERENCES PROCEEDINGS

1. 6th EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing,eBook ISBN 978-3-031-54696-9,Print ISBN:978-3-031-54695-2 (SCOPUS)
2. “5th EAI international conference on big data innovation for sustainable cognitive computing” SpringerLink. Available at: <https://link.springer.com/book/10.1007/978-3-031-28324-6>.(SCOPUS)
3. “4th EAI international conference on big data innovation for sustainable cognitive computing,” SpringerLink, Available at: <https://link.springer.com/book/10.1007/978-3-031-07654-1>(SCOPUS)
4. “3rd EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing: BDCC 2020 (EAI/Springer Innovations in Communication and Computing), DOI: <https://doi.org/10.1007/978-3-030-78750-9>(SCOPUS)
5. “2nd EAI International Conference on Big Data Innovation for Sustainable Cognitive

- Computing: BDCC 2019 (EAI/Springer Innovations in Communication and Computing), DOI:10.1007/978-3-030-47560-4(SCOPUS)
6. “1st EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing: BDCC 2018 (EAI/Springer Innovations in Communication and Computing), DOI:10.1007/978-3-030-19562-5(SCOPUS)
 7. AIP Conference on 1st International Conference On Sustainable Manufacturing, Materials and Technologies(ICSMMT) 2019,ISBN: 978-0-7354-1958-2(SCOPUS)
 8. AIP Conference on 2nd International Conference On Sustainable Manufacturing, Materials and Technologies(ICSMMT) 2020(SCOPUS)
 9. Proceedings of the 2021 3rd International Conference on Sustainable Manufacturing, Materials and Technologies, AIP Conference Proceedings 2408, 010001 (2021) (ICSMMT), <https://doi.org/10.1063/12.0006708>
 10. Proceedings of the 2022 4th International Conference on Sustainable Manufacturing, Materials and Technologies (ICSMMT), AIP Conference Proceedings 2779, <https://doi.org/10.1063/12.0016791>

EDITORSHIP IN JOURNALS

1. Editorial board member, Mathematics and Computer Science, ISSN: 2575-6028 (<http://www.mathcomputer.org/editorial-team>)
2. Section Editor, Australian Journal of Wireless Technologies, Mobility and Security ISSN 2200-1883 (<https://ausjournal.com/reviewers.php>)
3. Guest Editor in MDPI
4. Guest Editor in Inderscience Int. J. of Enterprise Network Management
5. Associate Editor in International Journal of Intelligence and Sustainable Computing
6. Associate Editor in International Journal of Intelligent Networks
7. Int. J. of Computational Complexity and Intelligent Algorithms(IJCCIA)
8. Int. J. of Enterprise Network Management (IJENM)
9. Int. J. of Intelligent Enterprise (IJIE)
10. Int. J. of Vehicle Information and Communication Systems (IJVICS)
11. World Review of Science, Technology and Sustainable Development(WRSTSD)
12. IRC Scientific and Technical Committee & Editorial Review Board
13. International Journal of Innovative Computing and Applications(IJICA)
14. International Journal of Integrated Supply Management(IJISM)
15. Int. J. of Technology Intelligence and Planning (IJTIP)

EDITORIAL

1. Editorial: Big Data Innovation for Sustainable Cognitive Computing, Mobile Networks and Applications, Springer, February 2019, Volume 24, Issue 1, pp 221–223.(SCI)
2. Editorial: Big Data Analytics for Sustainable Computing, Mobile Networks and Applications, Springer, December 2019, Volume 24, Issue 6, pp 1751–1754.(SCI)
3. Editorial: Big Intelligent Enterprise For Sustainable Computing, Inderscience Int. J. Intelligent Enterprise, Vol. 7, Nos. 1/2/3, 2020.(SCOPUS)
4. Editorial: Intelligent Computing and Sustainable Systems, Inderscience.
5. J. Computational Complexity and Intelligent Algorithms, Vol. 1, No. 2, 2019(SCOPUS)
6. Editorial: Big Data Innovation for Sustainable Intelligent Computing, Inderscience Int. J. Enterprise Network Management, Vol. 10, Nos. 3/4, 2019(SCOPUS)
7. Editorial: Big Data Innovation for Sustainable VANET Management, Inderscience Int. J. Vehicle Information and Communication Systems, Vol. 5, No. 1, 2020. (SCOPUS)
8. Haldorai, A., Ravana, S.D., Lu, J. *et al.* Big Data in Intelligent Information Systems. *Mobile Netw Appl* 27, 997–999 (2022). <https://doi.org/10.1007/s11036-021-01863-w> (SCOPUS)

INTERNATIONAL PATENT

1. Title of the invention: Blockchain-based Computing device for secure HR Data Management, Application number: 6345324, Intellectual Property UK.

INDIAN PATENT

2. Title of the invention: Spectrum Detection Methodology for Cognitive Radio System through Machine Learning, Application No. 201741017851 A, Ref: Patent Official Journal No. 02 June 2017 DOP: 02/06/2017, part 1, pp. 18106
3. Title of the invention: Method for enhanced feature selection in pollution control models for urban sustainability, Application no: 202141001930 A, Ref: Patent Official Journal No. 12 January 2021 DOP: 15/01/2021, No. of claims: 7
4. Title of the invention: Method for increasing accuracy in region based cell detection and segmentation of Biomedical images, Application no: 202141001458 A, Ref: Patent Official Journal No. 12 January 2021 DOP: 15/01/2021, No. of claims: 5

5. Title of the invention: Method for security and noise management in cognitive radio network, Application no:202141001457A,Ref: Patent Official Journal No.12 January 2021 DOP: 15/01/2021,No.of claims:5
6. Title of the invention: Method for optimized handover in cognitive radio networks based on spectrum sensing, Application no:202141001244 A,Ref: Patent Official Journal No.11 January 2021 DOP: 15/01/2021,No.of claims:5
7. Title of the invention: A Method for cognitive radio handovers using swarm Intelligence, Application no:202141001243A,Ref: Patent Official Journal No.11 January 2021 DOP: 15/01/2021,No.of claims:7

CONFERENCES PAPER PUBLICATION

1. Arulmurugan.R, Sengottuvelan.P “Adaptive Based kernel method for Denoising Image”, National Conference Recent Trends in Information and Communication Technology April 2012
2. Arulmurugan.R, LaxmiPriya.M.R,“A Novel Framework for Face Recognition Using ASM and Sparse Coding”, International Conference on Advanced Computing (ICoAC), 2013
3. Arulmurugan.R, LaxmiPriya.M.R,“Robust Face Recognition for Pose and Illumination using Extended ASM and Sparse Coding”, International Conference in Information Embedded and Communication Systems(ICIECS) 2014
4. Arulmurugan.R, A Subamanikandan “An effective Text Mining on use of side information for Clustering”, International Conference in Information Embedded and Communication Systems(ICIECS) March 2015
5. Arulmurugan.R, G.Sankar, M.Vinothkumar “Android Based Application For Call Taxi Booking”, National Conference on Recent Trends in Information and Communication Technology(RTICT) March 2015
6. Arulmurugan.R & Varalakshmi.T “P2P File Sharing Using Proximity-Aware Interest Clustering”, International conference on Emerging Trends in Science, Engineering& Technology(ICETSET’16) held on 4th-5th March 2016
7. Arulmurugan.R “Lung cancer segmentation in CT images using watershed algorithm and Artificial Neural network”, National Conference on Open Data Sciences and Computing held on 17-18 March 2017.
8. Arulmurugan.R, “Herbal Information System”, National Conference on Open Data Sciences and Computing held on 17-18 March 2017.
9. Arulmurugan.R, “Heart Attack Intimation and Easy Monitoring System using IoT”,

International Joint Conferences on Advances in Engineering and Technology held on May 11, 12 of 2018.

10. Arulmurugan.R, “Autonomous and Automated Vehicles – The Future Transportation Systems”, 2019 International Conference on Smart Systems and Inventive Technology (ICSSIT),IEEE CONFERENCE
11. Arulmurugan.R, “A Detailed Analysis of Big Data Analytics Challenges and Opportunities”, 2019 International Conference on Smart Systems and Inventive Technology (ICSSIT),IEEE CONFERENCE
12. Arulmurugan.R, “Artificial Intelligence and Machine Learning for Enterprise Management”, 2019 International Conference on Smart Systems and Inventive Technology (ICSSIT),IEEE CONFERENCE
13. Arulmurugan.R, “Analysis of Cloud Based Simulation Methods and Optimization Algorithms”, 2019 International Conference on Smart Systems and Inventive Technology (ICSSIT),IEEE CONFERENCE
14. Arulmurugan.R “Multispectral Data Processing for Agricultural Applications Using Deep Learning Classification Methods”, 2019 EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing:BDCC 2019
15. VasanthaKumari, N., Arulmurugan, R. (2022). Reorganizing Virtual Machines as Docker Containers for Efficient Data Centres, EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing
16. Arulmurugan.R, “Intelligent Vehicle System Problems and Future Impacts for Transport Guidelines”, 2019 International Conference on Smart Systems and Inventive Technology (ICSSIT),IEEE CONFERENCE

CONFERENCE ORGANIZED

1. BDCC 2018 - EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing, December 13-15, 2018,Coimbatore, India
2. BDCC 2019 - EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing, December 18-19, 2019,Coimbatore, India
3. Technical Program Committee Member in IEEE International Conference on Data Science and Communication(IconDSC-2019), 1-2 March 2019,Bangalore, India
4. Program Committee Member in International Conference on Innovative Computing and Management Science(ICMS 2019),Osaka, Japan
5. BDCC 2020 - EAI International Conference on Big Data Innovation for Sustainable

Cognitive Computing, December 17-18, 2020, Coimbatore, India

6. AIP Conference on 1st International Conference On Sustainable Manufacturing, Materials and Technologies(ICSMMT) 2020
7. BDCC 2021 EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing, December 17-18, 2020, Coimbatore, India
8. AIP Conference on 2nd International Conference On Sustainable Manufacturing, Materials and Technologies(ICSMMT) 2021
9. AIP Conference on 3rd International Conference On Sustainable Manufacturing, Materials and Technologies(ICSMMT) 2022
10. BDCC 2022 EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing, December 17-18, 2022, Coimbatore, India
11. BDCC 2023 EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing, December 16-17, 2023, Coimbatore, India

TECHINICAL COMMITTEE MEMBERSHIP

- International Conference on Computer Vision and Control Systems (CVCS 2025)
- International Conference on Intelligent Media and Sustainable Technology Management (IMSTM2025)

FOREIGN VISITS FOR CONFERENCE

- Session Chair in International Conference on Innovative Computing and Management Science(ICMS 2019), Osaka, Japan

RESOURCE PERSON IN WORKSHOP

- 'Machine Learning using Python' given workshop in Janson Institute of Technology for IT Students on 16.2.2018

MEMBERSHIP IN THE PROFESSIONAL BODIES

1. Senior Member in IEEE-ID: 91136479
2. Senior Member in Association for Computing Machinery (ACM)-ID: 3834414
3. Member in Indian Society for Technical Education (ISTE)-ID: LM116691
4. Member in IET-ID: 1100505554
5. Member in Association for the Advancement of Artificial Intelligence -ID: 88409
6. Member in International Computer Science and Engineering Society (ICSSES)-ID:#83
7. Medical Image Computing and Computer Assisted Interventions Society

AWARDS

1. Best Young Faculty Award 2018 by Engg Professional Society
2. Best Young Researcher Award by International Academic and Research Excellence

Awards (IARE-2019)

3. First Fellow status 2019 Awarded by European Alliance for Innovation

GUEST LECTURE DELIVERED

1. Presented the topic on “MIMO Technology for Wireless Communication” at SNS College of Engineering ,Coimbatore on 25th September 2015
2. Guest Lecture given on “M-Commerce” at SNS College of Engineering, Coimbatore on 15th April 2016

FDP ATTENDED

1. Attended Two-week FDP on “Database management Systems” conducted by Indian Institute of Technology Bombay on 21st April to 31st May 2013
2. Attended Two-week FDP on “Cyber Security” conducted by Indian Institute of Technology Bombay from 10th July to 20th July 2014
3. Attended Two-week FDP on “Introduction to Design of Algorithms” conducted by Indian Institute of Technology Kharagpur on 27th April to 30th May 2015

SHORT-TERM COURSE

1. Attended One-week short- Term course in “Biomedical Image Analysis” conducted by Indian Institute of Information Technology Allahabad on 15th December to 23rd December 2016
2. One-week short- Term course attended in “Biomedical Image Data Analytics” conducted by Indian Institute of Technology, Kharagpur on 11th September to 17th September 2017

TECHNICAL SKILLS AND COMPETENCIES

Coding Skills	: Python,Keras, Pytorch,JAX, CNN, LSTM, DBN, GAN, MLP,OpenCV, Mahotas, Keras, PyTorch, YOLO,NLTK, Hugging face, Scikit-learn, TensorFlow, PyTorch, Gensim, spaCy,LLAMA
Data analytics Tools	: Microsoft Excel, Power BI, R
IDE	: Pycharm,VS CODE,Anaconda
Web Applications	: HTML,Django-python,NodeJS,Flask

CERTIFICATIONS

1. Facial Expression Recognition with PyTorch from Coursea
<https://coursera.org/share/f17cb2adc4fb46fe7553eaeadf9232ec>

2. Optimization problems and algorithms from Udemy
<https://www.udemy.com/certificate/UC-16f43bc4-bf9e-49b6-8cf5-f2277a18d9f4/>

LEADERSHIP ACTIVITIES

2021-2025

- AI Lab Research Co-ordinator in Mattu University, Ethiopia
- Head - Question Paper Scrutiny
- Specialization Co-ordinator
- Community Engagement Chair
- Research Co-ordinator
- Organizer, National and International Level Conferences
- Workshop Co-ordinator
- Editorial Committee Head
- Technical Advisory Board Member
- Technical Committee member

2018 to 2021

- Research Co-ordinator
- Head - Question Paper Scrutiny
- Organizer, National and International Level Conferences
- Orientation Session Coordinator
- Workshop Co-ordinator
- Editorial Committee Head
- Technical Advisory Board Member
- Technical Committee member

2012 to 2018

- Faculty Advisor
- Department Library-in- Charge
- College Assembly Coordinator
- Orientation Session Coordinator
- Class Committee Chairperson and Industrial Visit Co-ordinator
- Organizer, National Level Technical Symposiums

- Organizer, National and International Level Conferences
- Symposium Co-ordinator
- Editorial Committee Head
- Technical member
- Venue Arrangement Committee Head

2009 to 2012

- Hospitality & Refreshment Committee Head
- Decoration Committee Head
- Purchase Committee Head

REFERENCES

1. Dr.Sathya M

Vice Principal and Associate Professor

Nadar Saraswathi College of Engineering and Technology, Theni.

msathya15@gmail.com

+91 98848 54043

2. Dr.Pratap Mani

Assistant Professor

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