
A. Reyana

Assistant Professor

Karunya University-Coimbatore-TN



Has a decade of experience in academia with publications in Scopus indexed international, reviewer for Scopus international journals and a Member of IEEE and IAENG.

Education

Qualification	Institution	Year of Passing	Percentage/Class
Ph. D.*	Anna University, Chennai	2022	-
M.E. (CSE)	St. Peter's Institute of Higher Education & Research, St. Peter's University, Chennai.	April 2013	7.69, First Class
B.E. (CSE)	Sri Ramakrishna Institute of Technology, Anna University – Chennai, Coimbatore.	April 2007	76%, First Class
HSC	Alvernia Matriculation and Higher Secondary School, State Board, Coimbatore.	March 2003	81%, First Class
SSLC	Alvernia Matriculation and Higher Secondary School, Matric, Coimbatore.	March 2001	79.27%, First Class

Subject Expertise

- ☞ Compiler Design
- ☞ Theory of Computation
- ☞ Cyber forensics
- ☞ Artificial Intelligence
- ☞ Wireless Sensor Networks

Projects

- ☞ **Certain Investigations on Multisensor Fusion Techniques For Condition-Based Environment Monitoring System (Ph.D.)**

Training Undergone

- ☞ Internet of Things
- ☞ Cloud Computing
- ☞ Oracle 10g DBA, A+ InfoTech, Coimbatore
- ☞ Breakthrough- “Team Work and Development”, Bangalore
- ☞ “Hardware and Networking”, Access Business Machines Pvt. Ltd., Coimbatore

Professional Experience

- ☞ Teaching – 14 Years

Reviewer

- ☞ Microprocessors and Microsystems – **Elsevier Journal**
- ☞ Journal of Medical Systems – **Springer Journal**
- ☞ Neural Processing Letters – **Springer Journal**
- ☞ Personal and Ubiquitous Computing – **Springer Journal**
- ☞ Neural Processing Letters – **Springer Journal**
- ☞ Inderscience Journal
- ☞ Arabian Journal for Science and Engineering

Academic Identity

- ☞ **Orcid Id** 0000-0001-8429-4242
- ☞ **Scopus Id** <https://www.scopus.com/authid/detail.uri?authorId=57200657402>
- ☞ **Researcher Id** <https://publons.com/researcher/4381514/re yana-a/>

Professional Membership

- ☞ Annual Member of IEEE-Advancing Technology for Humanity (94516624)
- ☞ Member of Indian Congress Association (A2558)
- ☞ Member of International Association of Engineers (166771)
- ☞ Member of Universal Association of Computer and Electronics Engineers

Achievements in Career

Research Publications

Patent Published

Year	Title	Application Details	Publication Date
2021	A Fault Tolerance Solution For Large Scale Wireless Sensor Networks In The Context of A Precision Agriculture Application	Application No.202141011050 A	26/03/2021

Published

- **Reyana A**, Sandeep Kautish, “SDMTA: Attack Detection and Mitigation Mechanism for DDoS Vulnerabilities in Hybrid Cloud Environment”, **IEEE Transactions on Industrial Informatics**.
- Rajkumar Gangappa Nadakinamani, **Reyana A**, Sandeep Kautish, Vibith AS, Yogita Gupta, Ali Wagdy Mohamed, “Clinical Data Analysis for Prediction of Cardiovascular Disease using Machine Learning Techniques”, **Computational Intelligence, and Neuroscience, Hindawi (SCI, WoS, Scopus)**.
- Reyana A, Sandeep Kautish, A.S. Vibith, S.B. Goyal, “EGMM Video Surveillance for monitoring urban traffic scenario”, International Journal of Intelligent Unmanned Systems, Emerald Publishing Limited 2049-6427, DOI 10.1108/IJIUS-07-2021-0061, 13th September 2021(**SCI; Scopus**)
- Reyana A, Sandeep Kautish, "COVID – 19 Pandemic: A Review on Machine Learning Approaches and Treatment Trials on Diagnosed Population for Future Clinical Decision Support" submitted for possible publication in the journal "Current Medical Imaging". Bentham Science, DOI : 10.2174/1573405617666210414101941(**Science Citation Index Expanded™ (SciSearch®), Scopus**)
- Reyana A, Vijayalakshmi P, “Multisensor data fusion technique for energy conservation in the wireless sensor network application “condition-based environment monitoring”, Journal of Ambient Intelligence and Humanized Computing, ISSN 1868-5137, DOI 10.1007/s12652-020-02687-4, January 2021. **Springer Journal (SCI Index, A1)**
- Reyana A, Vijayalakshmi P, “Multisensor Data Fusion Technique For Environmental Awareness In Wireless Sensor”, Solid State Technology, Volume: 64 Issue: 2, Publication Year: 2021, Volume 64, Issue 2 (**A1**).

- Reyana A, Vijayalakshmi P., Sandeep Kautish, “Multisensor Fusion Approach: A Case Study on Human Physiological Factor-based Emotion Recognition and Classification”, International Journal of Computer Applications in Technology, **Inderscience (WoS - Scopus)**.
- A. Reyana, V.T. Krishnaprasath, Sandeep Kautish, Ranjit Panigrahi, Mahaboob Shaik , “Decision-making on the existence of soft exudates in diabetic retinopathy”, International Journal of Computer Applications in Technology, **Inderscience (WoS - Scopus)**.
- A. Suresh, A. Reyana & R. Varatharajan , “CEMulti-core Architecture for Optimization of Energy over Heterogeneous Environment with High Performance Smart Sensor Devices “Wireless Personal Communications an International Journal ISSN 0929-6212, Wireless Pers Commun. DOI 10.1007/s11277-018-5504-0, **Springer, 2018. (SCI Index, A1, Scopus)**
- Reyana. A, P. Vijayalakshmi, “Multisensor Data Fusion Technique For Environmental Awareness In Wireless Sensor”, European Journal of Molecular & Clinical Medicine, Volume 07, Issue 08, 2, ISSN 2515-8260(**Publton**)
- Dr. A. Suresh, Reyana A, Rajeswari K, Reshma Elsa Varghese, “Multi- scale License plate Detection and Location for Traffic Surveillance”, International Journal of Scientific & Engineering Research, Volume 8, Issue 7, July-2017, ISSN 2229-5518.
- Dr. A. Suresh, Reyana A, Vaishnav Namboothiri T A, Dheeraj R, “ Cluster Detection in Text Pattern Over Emerging Social Networking Sites”, International Journal of Scientific & Engineering Research Volume 8, Issue 7, July-2017 ISSN 2229-5518
- Reyana A, Vaishnav Namboothiri T A, Dheeraj R,” In A Study On Anomalous Cluster Detection In High Dimensional Discrete Data Sets Over Social Media”, International Journal of Advances in Electronics and Computer Science, ISSN: 2393-2835 <http://Iraj>. Volume-4, Issue-5, May-2017
- A.Suresh and A. Reyana (2017), “Armor on Digital Images Captured Using Photoelectric Technique by Absolute Watermarking Approach”, in International Journal of Computational Systems Engineering (IJCSYSE), Inderscience. ISSN online: 2046-3405 ISSN print: 2046-3391
- A. Reyana, M. Amutha, “Security Enhancement Using P-Encryption Approach for Safer Clouds”, International Journal of Scientific Research in Science, Engineering and Technology, Volume 2, Issue 5, ISSN: 2395-1990, Oct. 2016
- S. R. Ramya, A. Reyana, “Stepping Stone Technique for Monitoring Traffic using Flow Watermarking” International Journal of Computer Application Technology and Research, Volume 3, Issue 3, March 2014

- A. Reyana, S. Priya, "Mechanism Based Intrusion Detection for Balancing Resource Consumption in MANET'S", Progress in Non Linear Dynamics and Chaos, Volume 1, 2013, ISSN: 2321-9238, November 2013

In Progress (Under Peer Review and Production)

- **Reyana A**, Vijayalakshmi P, "Multisensor Information Fusion and Optimization Technique for Wildfire Detection and Prevention in WSN Environment", **Wireless Personal Communications, Springer.**
- **Reyana. A**, Sandeep Kautish, Fadi Al-Turjman, Achyut Shankar, "Decision Support for Risk Stratification in Gestational Diabetes Service Case Using Machine Learning Technique", **Journal of Healthcare Engineering Hindawi (SCI, WoS, Scopus).**
- **Reyana. A**, Sandeep Kautish, "Enhanced W-Convolutional Neural Network Technique for Automatic Speech Recognition", **Neural Computing and Applications, Springer.**

Book Chapters Published

- Book Title "Demystifying Big Data, Machine Learning and Deep Learning for Healthcare Analytics", Chapter: 4 Emergence of Decision Support Systems in Healthcare, International, 2021, ISBN:9780128216330 – **Elseiver Publications.**
- Book Title "Blockchain, Internet of Things, and Artificial Intelligence", Chapter "Blockchain for Internet of Things – I", International, 2021 ISBN:9780367371531- **CRC Press – Taylor and Francis Group.**
- Book Chapter "A Novel Framework on Biomedical Image Analysis based on Shape, Texture and Pattern Classification for Complex Disease Diagnosis," for the book title, "Deep Neural Networks for Multimodal Imaging and Biomedical Applications" published by **IGI Global - International Academic Publisher.**
- Book Chapter "Emerging Information Technology Scenarios and their Contributions in Reinventing Future Healthcare System," for the book title, "Deep Neural Networks for Multimodal Imaging and Biomedical Applications" published by **IGI Global - International Academic Publisher.**