Faculty Profile

Dr. A. Reyana, M.E., Ph.D.

Assistant Professor,

Department of Computer Science and Engineering

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

Academic Background

Qualification	Institution/University	Year
Ph. D.	Anna University, Chennai	2023
M.E. (CSE)	St. Peter's Institute of Higher Education & Research, St. Peter's University, Chennai.	2013

Subject Expertise

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

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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

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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/reyana-a/

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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

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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

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Most recent Journal Publications

A. Reyana, "Opportunities of IoT in Fog Computing for High Fault Tolerance and Sustainable Energy Optimization", Sustainability (2023), 15, 8702. https://doi.org/10.3390/su15118702

Reyana, A, "Multisensor Information Fusion for Condition Based Environment Monitoring", (2023), Intelligent Automation and Soft Computing, 36 (1), pp. 1013-1025. DOI: 10.32604/iasc.2023.032538

Reyana, A., "High-performance association rule mining: Mortality prediction model for cardiovascular patients with COVID-19 patterns", (2023) Alexandria Engineering Journal, 71, pp. 347-354, DOI: 10.1016/j.aej.2023.03.036

Reyana, A, "Enhanced Cloud Storage Encryption Standard for Security in Distributed Environments", (2023), Electronics (Switzerland), 12 (3), art. no. 714, . DOI: 10.3390/electronics12030714

Reyana, A., "MTEDS: Multivariant Time Series-Based Encoder-Decoder System for Anomaly Detection", (2022), Computational Intelligence and Neuroscience, 2022, art. no. 4728063, DOI: 10.1155/2022/4728063

Reyana, A., "SDMTA: Attack Detection and Mitigation Mechanism for DDoS Vulnerabilities in Hybrid Cloud Environment", (2022) IEEE Transactions on Industrial Informatics, 18 (9), pp. 6455-6463, DOI: 10.1109/TII.2022.3146290

Reyana A, "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, "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, "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, "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, "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, "Decision-making on the existence of soft exudates in diabetic retinopathy", International Journal of Computer Applications in Technology, Inderscience (WoS -Scopus).

A. Reyana "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, "Multisensor Data Fusion Technique For Environmental Awareness In Wireless Sensor", European Journal of Molecular & Clinical Medicine, Volume 07, Issue 08, 2, ISSN 2515-8260 (Publon)