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Google Scholar : h-index : 13; i10-index: 13

PROFILE

QUALIFICATION	• Ph.D. • M.Tech. • B.Tech.
TEACHING/ RESEARCH/ ESTABLISHMENT EXPERIENCE	11 years
PUBLICATIONS	1. Journals: 27 2. Conferences: 08 3. Book: 01 4. Edited Books: 02 5. Book Chapters: 04
RESEARCH GUIDED	M.Tech : 08

WORKSHOP/ QIP/ FDP/ SHORT COURSES	1. WORKSHOP: 04 2. FDP: 03 3. SHORT COURSES: 06
ACHIEVEMENTS/ RECOGNITIONS AT THE NATIONAL/ INTERNATIONAL LEVEL	1. Developed the Digital Twin Model in collaboration of the University of Texas, San Antonio, USA 2. Developed CDHAM project with Southern Methodist University, Dallas, Texas, USA
REVIEWER	International Journals: 1. Scientific Reports, Nature Publishing Group. 2. Applied Soft Computing, ELSEVIER. 3. International Journal of Applied Management Science (IJAMS), Inderscience Publishers (Academic Publisher based in Geneva, Switzerland). 4. SNComputer Science (Springer). 5. Taylor & Francis.
	International Conference: Mexican International Conference on Artificial Intelligence

RESEARCH INTERESTS

- Artificial Intelligence
- Machine Learning
- Deep Learning
- Digital Twins
- Computer Vision
- Knowledge Graphs

SUMMARY OF RESEARCH ACCOMPLISHMENT:

- Grant Awarded from **The University of Texas, San Antonio, U.S.A.** to carry DTwin District research work, **Project Number: E085-EIC-GI06-B-T3 DIGITAL TWIN, Mexico.**

- CONAHCYT, Dense Captioning of Videos.

COURSE TAUGHT:

- Bachelor of Technology in CSE
- Master of Technology in CSE

STUDENTS SUPERVISION

A) M.Tech. Thesis – 08 (2015 – till date)

B) B.Tech. Final year Projects – 25

PUBLISHED/GRANT PATENTS

Grant Number: E085-EIC-GI06-B-T3, The University of Texas, San Antonio, U.S.A.

PUBLISHED SCI/SCOPUS RESEARCH PAPERS

- **SCI - 08**
- **SCOPUS - 21**

PAPER PUBLISHED IN INTERNATIONAL CONFERENCES

- “TEC 21 Model and Critical Thinking: An NCM-based Neutrosophic Analysis in Higher Education”, Mediterranean Conference on Neutrosophic Theory (MeCoNeT 2024), **Italy**.
- “Neutrosophic Logic to Navigate Uncertainty of Security Events in Mexico”, NSS, Mediterranean Conference on Neutrosophic Theory (MeCoNeT 2024), **Messina, Italy**.
- “Multimodal Biometric System: A Review,” International Conference on Data Science, Machine Learning & Applications, **Springer**, (Indexed in SCOPUS), Jan 2020.
- “Sentiment Analysis of Sarcastic Sentences of Twitter Data,” International Conference on Advancement in Computer Engineering and Information Technology (ACEIT-2018).
- “A Review of Big Data Deduplication and Dynamic Ownership Management in Cloud Storage”, International Conference on Advancement in Computer Engineering and Information Technology (ACEIT-2018).
- “Big Data Analysis: Data Management in Microblogs”, International Conference on Innovations in Control, Communication and Information Systems (ICICCI-2017), **IEEE Xplore** Digital Library, ISBN: 978-1-5386-3941-2, <http://toc.proceedings.com/47940webtoc.pdf>
- “Sentiment Analysis Based on A.I. Over Big Data”, International Conference on Data Engineering and Communication Technology (ICDECT) 2016, Volume 2, 25 August 2016. Paper Available- https://link.springer.com/chapter/10.1007%2F978-981-10-1678-3_61, SCOPUS.
- “Floating Wave Mobile Agent For Distributed Intrusion Detection System”, International Conference on Electrical, Electronics and Computer Science (ICEECS), ISBN: 978-93-8169388-16, Chandigarh 24th March 2013.

MISCELLANEOUS RESEARCH PAPERS

1. “Adoption of Large Language Models in Programming Education: Student Views, Concerns, and Perceived Use in Mexican Higher Education”, Human Behavior and

- Emerging Technologies, Wiley,
<https://onlinelibrary.wiley.com/doi/epdf/10.1155/hbe2/8254212>, 2026, **SCOPUS**.
2. **“CoEDMTVideo: Collaborative Edge Computing and Optimal Ensemble Deep Q-Learning Network for Distributed Model Training in IoT Video Stream Environments”**, International Journal of Fuzzy Systems, **Springer** Berlin Heidelberg, <https://link.springer.com/article/10.1007/s40815-025-02197-5>, 2026, **SCOPUS**.
 3. **“PolyModNet: Advanced positional encodings and ethical bias mitigation in adaptive multimodal fusion for multilingual language understanding”**, Neurocomputing, **ELSEVIER**,
<https://www.sciencedirect.com/science/article/abs/pii/S0925231225021228>, 2025, **SCOPUS**.
 4. **“Squacc BiLSTM: a framework for dense video captioning using neural knowledge graph and deep learning”**, Signal, Image and Video Processing, **Springer** London, <https://link.springer.com/article/10.1007/s11760-025-04657-9>, 2025, **SCOPUS**.
 5. **“GSR-C2N: Graph Feature Extracted Spar-Raven Optimized CNN Based Crypto Mining Framework”**, Concurrency and Computation: Practice and Experience, **John Wiley & Sons, Inc.**, 2025, **SCOPUS**.
<https://onlinelibrary.wiley.com/doi/abs/10.1002/cpe.70146>
 6. **“Digital Twin technology for multimodal-based smart mobility using hybrid Co-ABC optimization based deep CNN”**, Cluster Computing, **Springer**, 2025, **SCOPUS**.
<https://link.springer.com/article/10.1007/s10586-024-04903-8>
 7. **“DTwin-TEC: An AI-based TEC district digital twin and emulating security events by leveraging knowledge graph”**, Journal of Open Innovation: Technology, Market, and Complexity, **2024**, **ELSEVIER**,
<https://www.sciencedirect.com/science/article/pii/S219985312400091X>, **SCOPUS**.
 8. **“Deep learning and knowledge graph for image/video captioning: A review of datasets, evaluation metrics, and methods”**, Engineering Reports, **2024**, **John Wiley & Sons, Inc.**,
<https://onlinelibrary.wiley.com/doi/abs/10.1002/eng2.12785>, **SCOPUS**.
 9. **“A deep learning approach for image and text classification using neutrosophy”**, International Journal of Information Technology, **2024**, **Springer Nature**,
<https://link.springer.com/article/10.1007/s41870-023-01529-8>, **SCOPUS**.
 10. **“MetaV: A Pioneer in Feature Augmented Meta-Learning Based Vision Transformer for Medical Image Classification”**, Interdisciplinary Sciences: Computational Life Sciences, **2024**, **Springer**, <https://link.springer.com/article/10.1007/s12539-024-00630-1>, **SCOPUS**.
 11. **“Neutrosophic Logic to Navigate Uncertainty of Security Events in Mexico”**, Vol. 73 (2024): Neutrosophic Sets and Systems, (**SCOPUS**, Web of Science, ESCI), **2024**,
<https://fs.unm.edu/nss8/index.php/111/article/view/5020>
 12. **“Neutrosophic CNN-based image and text fusion for multi-modal classification”**, Journal of Intelligent & Fuzzy Systems, May **2023**,
<https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs223752>, **SCOPUS**.
 13. **“Violence detection approach based on cloud data and Neutrosophic cognitive maps”**, Volume 11, Issue 1, Dec. **2022**,

<https://journalofcloudcomputing.springeropen.com/articles/10.1186/s13677-022-00369-4>,
SCOPUS.

14. **“COVID-WideNet—A capsule network for COVID-19 detection”**, Applied Soft Computing, **ELSEVIER**, Volume 122, June 2022, 108780, <https://doi.org/10.1016/j.asoc.2022.108780>, **SCOPUS**.
15. **“The Importance of Indeterminate and Unknown Factors in Nourishing Crime: A Case Study of South Africa Using Neutrosophy,”** Neutrosophic Sets and Systems, vol. 41, 2021, pp. 15-29. DOI: 10.5281/zenodo.4625669, (**SCOPUS**, Web of Science, ESCI), https://digitalrepository.unm.edu/nss_journal/vol41/iss1/3/, **SCOPUS**
16. **“Palm and Fingerprint Based Multimodal Biometric Technique”**, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-6, March 2020, (**SCOPUS Indexed**), <https://www.ijrte.org/wp-content/uploads/papers/v8i6/F7328038620.pdf>
17. **“Energy Efficient Routing Technique by using TORA and BPSO”**, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878 VOL. 8 ISSUE 4, NOV., 2019, (**Scopus Indexed**), <https://www.ijrte.org/wp-content/uploads/papers/v8i4/D8904118419.pdf>
18. **“Security Systems using Viola Jones for Face Detection”**, International Journal of Research in Electronics and Computer Engineering, VOL. 7 ISSUE 2, 2019.
19. **“Data Storage Security Issues in Cloud Computing”**, International Journal of Information and Computing Science, ISSN: 0972-1347 Volume 6, Issue 5, 2019.
20. **“Prevention of Big Data by Secure Deduplication in Cloud Storage”**, International Journal of Research in Signal Processing, Computing & Communication System Design, ISSN: 2395-3187 Volume 4, Issue 2, June 2018.
21. **“A Watermarking Approach in DWT Domain using SYMLET and COIFLET Filters”**, International Journal of Advance Research, Ideas and Innovations in Technology (IJARIIT), Volume 3, Issue3, May 2017 Edition (ISSN 2454-132X).
22. **“An Image Resolution: A Survey”**, International Journal of Scientific Engineering and Research, Paper Published in **IJSER** Volume 5 Issue 5, May 2017 Edition, ISSN (Online): 2347-3878.
23. **“A Review on Medical Image Compression Techniques”**, International Journal of Digital Application & Contemporary Research (IJDACR), ISSN: 2319-4863. Volume 5, Issue 8, March 2017 Edition
24. **“Sketch-Based Image Indexing and Retrieval”**, International Journal of Computer Engineering, Paper Published in (IOSR-JCE) e-ISSN: 2278-0661, p-ISSN: 2278-8727, Volume 18, Issue 2, Ver. I (Mar-Apr. 2016), PP 76-80.
25. **“Adaptive Negotiation Agent System for E-Commerce Applications”**, International Journal of Scientific Progress and Research (IJSPR), ISSN: 2349-4689 Volume 23, Number 03, 2016.
26. **“Agent-Based E-commerce Modeling: A Review”**, Journal of Inventions in Computer Science and Communication Technology (JICSCT), ISSN: 2455-5738 Volume 2 –Issue 2, April 2016.

27. **“Sentence Similarity Based Text Summarization Using Clusters”**, International Journal of Scientific and Engineering Research (**IJSER**), Paper Published in IJSER Volume 4, Issue 5, May 2013 Edition (ISSN 2229-5518).

BOOK CHAPTERS

1. **“Innovations in Healthcare: Unveiling the Potential of Generative AI”**, Springer Nature Singapore, https://link.springer.com/chapter/10.1007/978-981-95-2129-6_7
2. **“Integrated smart traffic ecosystem: A novel framework for real-time traffic management”**, Elsevier, <https://www.sciencedirect.com/science/chapter/editedvolume/abs/pii/B9780443364082000096>
3. **“Artificial intelligence (AI) and Internet of things (IoT): application in detecting and containing the spread of COVID-19”**, Springer International Publishing., https://link.springer.com/chapter/10.1007/978-3-031-31952-5_16
4. **“Adversarial Learning of Security Risk in Cobots Driven Industry”**, John Wiley, https://www.researchgate.net/publication/375343456_Adversarial_Learning_of_Security_Risk_in_Cobots_Driven_Industry#:~:text=Cobots%20exist%20alongside%20humans%20and,improve%20the%20security%20of%20Cobots.