Dr. Heena Rathore

Contact Information

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Present Employer

Texas State University, San Marcos, Texas, USA

Assistant Professor **August, 2022 - Present**
Department of Computer Science
Responsible for conducting research, supervise undergraduate and graduate students' research and theses, develop grant proposals and provide academic support.
CS4379H-Cryptography
CS4371-CS5378 Computer Security
CS7389F- Secure Cyber Physical Systems

Education

Indian Institute of Technology, Jodhpur, India

Ph.D., Computer Science and Engineering, 2016

- Dissertation Topic: "*Improving Security in Wireless Sensor Network through Bio-Inspired Approaches*"
- Overall GPA: 8.96/10

College of Technology and Engineering, Udaipur, India

B.E., Computer Science and Engineering, July, 2010

- Overall GPA: 8.33/10

Post Doctorate Research Experience

US-Qatar Joint Collaborative Project

Post Doctorate Researcher, Qatar University **Jan, 2017 - Oct, 2017**
Joint Collaboration between Temple University (USA), University of Idaho (USA) and Qatar University (Qatar).Topic: *Wireless Medical Device Security*

Wichita State University, Wichita, Kansas, USA

Visiting Researcher **March - June 2015 and June - December 2016**
Dept. of Electrical Engineering and Computer Science

Licenses and Certification

NVIDIA Deep Learning Institute University Ambassador and Certified Instructor on "Building AI Agents with Multimodal Models" **2026**

Professional Positions

- CAHSI Local Research Experiences for Undergraduates (LREU) Faculty Mentor **2026-Present**
- ACM Senior Member **2024**
- Chair, IEEE Engineering in Medicine and Biology Society (IEEE EMBS), Lone Star Section **2019-2025**
- Programme Advisory Board for the Certificate in Big Data Technologies for Namibia University of Science and Technology, Namibia **2025-2030**
- Curriculum Advisory Board Officer for PhD Program in Computer Science for Namibia University of Science and Technology, Namibia (Have reviewed 5+ PhD thesis) **2020-2025**
- ACM Distinguished Speaker **2019-2022**

- Vice Chair, IEEE Central Texas Section, Austin **2019-2020**
- IEEE Senior Member **2019**

Academic Experience

University of Texas at San Antonio, Texas, USA

Assistant Professor of Instruction **Jan, 2020 - August 2022**
Department of Computer Science
CS1083 Intro to Programming 1 (Java), **Spring 2020-2022, Fall 2020-2021**
CS2073 Computer Prog W/Egr Application, **Fall 2020**
CS3443 Application Programming. **Spring 2020-2022, Fall 2020-2021, Summer 2020**
CS4363-CS6373 Cryptography-Applied Cryptography, **Spring 2021**
Chapter Advisor for UTSA EMBS Student Branch.

Texas A&M University at Texarkana, Texas, USA

Visiting Assistant Professor **Sept, 2019 - Jan, 2020**
College of Business, Engineering and Technology
COSC1315 Introduction to Computer Science
CS316 Web Design and Programming
CS332 C++ Programming.

University of Texas, Austin, USA
Guest Lecturer
MIS 304 Recursion **May, 2019**
MIS 381N Introduction to Data Management **November, 2018**
CE 321 Transportation Systems **October, 2018**
MIS 304 Classes and Objects Programming **April, 2018**

Namibia University of Science and Technology, Namibia **July, 2018 - December 2020**
Reviewed Curriculum for Bachelor of Computer Science in Cyber Security, Bachelor of Computer Science Honours in Digital Forensics and Bachelor of Computer Science Honours in Information Security, 2018, 2019, 2020.

Industrial Experience

Hiller Measurement, Austin, Texas, USA

Data Scientist and Program Manager **Nov, 2017 - Sept, 2019**

National Instruments, Bangalore, India

PhD Intern **April, 2013 - July, 2013**

Phosphate India Private Limited, Udaipur, India

Design Executive **July, 2010 - July, 2011**

Honors and Awards

- IEEE EMBS Outstanding Leadership Award. **2025**
- IEEE EMBS Best Professional Regional Chapter Award, North America, held at Copenhagen, Denmark. **2025**
- AlphaChi Favorite Professor Award, Alpha Chi Honor Society **2024-2025**
- IEEE EMBS Best Professional Regional Chapter Award, North America, held at Miami, USA. **2024**
- IEEE EMBS Appreciation Award, for notable services and contributions towards the advancement of IEEE and Engineering Professions, **2024**

- REYA Award, Recognizing Excellence in Young Alumni, organized by Indian Institute of Technology Jodhpur. **2021**
- Declared as "Educationist Empowering India" by National Awareness Times. **2020**
- IEEE R5 Outstanding Individual Achievement Award. **2020**
- IEEE Achievement Awards 2019, for Commitment, Dedication and Contribution towards IEEE, Central Texas Section. **2019**
- Young Professional Engineer Award, for Outstanding Contribution and Technological Advancement in the Field of Engineering, CTAE Alumni Award. **2019**
- Global Engineering Impact Award (Advanced Research Category) for "Machine Learning on FPGA for Secure Cyber-Physical Systems" held by National Instruments Globally **2019**
- Graphical System Design Achievement Awards, National Instruments **2013**
- Tata Consultancy Services India Fellowship **2012**
- Overall Performance Award, Maharana Pratap University of Agriculture Technology, India **2011**

Research Interests

Cognitive AI, cyber physical systems security, large language models.

Patent

H. Rathore, and H. Griffith, Integrating human and ai preferences in autonomous vehicles. U.S. Patent Application 19/381,038, Texas State University, 2026.

Heena Rathore, "Customizable and Ultra Realistic Virtual Caretakers using Generative Artificial Intelligence Technologies", Provisional Patent Application Atty Docket No. VR39977.P090V1, 2024.

Grants

- PI, National Artificial Intelligence Research Resource (NAIRR) Pilot Project, "Trustworthy Vision-Language Models via Minimal Sufficient Captions for Faithful Image Generation", 12,400 GPU hours and 6000 Open AI credits. **2026-2027**
- PI: Bobcatalyst Proof of Concept: "MoralMatrix: Human–AI Synergy for Ethical Decision Making", $30,000. **2026-2027**
- PI: Google CAHSI: Enhancing Moral Decision Making in Large Language Models, $48,125 **2024-2026**
- PI: Google GCP Credits award, $10,000 **2024-2025**
- PI: NSF CRII: CPS: Cooperative Neuro-Inspired Actor Critic Model for Anomaly Detection in Connected Vehicles $174,998 **2022-2025**
- Co-PI, Google exploreCSR, Empowering Pathways: Enabling Research Computing Careers for Underrepresented Students at Two-Year Institutions $125,000 **2024-2025**
- Supporting PI: Tensorflow: Enhancing Interest in Research Computing Pathways using Generative AI. **2023-2024**
- Supporting NSF REU Mentor: Research Experiences for Undergraduates in Edge Computing, Texas State University. **2023-2025**
- Supporting PI: High Performance Computing GPU Server for Machine Learning Research, Materials Application Research Center (MARC), Texas State University, $49512. **2022-2023**
- CoI: Improving the engagement and self-efficacy of latinx learners through a redesigned entry point ECE course, ExploreCSR, Google Research $18,000 **2021-2022**
- CoPI: Automation, Artificial Intelligence and Machine Learning in Global Cyber Situational Awareness and Battle Management–Joint Cyber Command and Control, Department of Defense $50,000 **2021**

Journal Publications

- Akshit Singh, **Heena Rathore**, "Advancing Connected Vehicle Security through Real-time Sensor Anomaly Detection and Recovery", Science Direct, Vehicular Communications, 2025.
- Faycal Znidi, Mohamed Morsy and **Heena Rathore**, "Future on Wheels: Safeguarding Privacy in Tomorrow's Connected Vehicles-FUTURE-SP," in IEEE Access, vol. 12, pp. 179857-179878, 2024.
- Harsh Agarwal, **Heena Rathore**, "BGRL: Basal Ganglia Inspired Reinforcement Learning Based Framework for Deep Brain Stimulators", *Artificial Intelligence in Medicine*, ScienceDirect, 2024.
- **Heena Rathore**, Yash Kumar Singhal, George K.J., "Social Psychology Inspired Reinforcement Learning Framework for Conflict Management in Connected Vehicles", *IEEE Transactions on Cognitive and Developmental Systems*, 2023.
- **Heena Rathore**, Siva Sai, Akshay Gundewar, "Social Psychology Inspired Distributed Ledger Technique for Anomaly Detection in Connected Vehicles", *IEEE Transactions on Intelligent Transportation Systems*, 2023.
- Santosh Kumar Yadav, Achleshwar Luthra, Esha Pahwa, Kamlesh Tiwari, **Heena Rathore**, Hari Mohan Pandey, Peter Corcoran, "DroneAttention: Sparse weighted temporal attention for drone-camera based activity recognition", *Neural Networks*, vol. 159, pp. 57-69, 2023.
- Kartik Narayan, **Heena Rathore** and Faycal Znidi, "Using Epidemic Modelling, Machine Learning and Control Feedback Strategy for Policy Management of COVID-19," in *IEEE Access*, 2022.
- Santosh Kumar Yadav, Siva Sai, Akshay Gundewar, **Heena Rathore**, Kamlesh Tiwari, Mohit Mathur, "CSITime: Privacy-Preserving Human Activity Recognition Using WiFi Channel State Information", *Elsevier Neural Networks*, 2022.
- **Heena Rathore**, Amr Mohamed, Mohsen Guizani, Shailendra Rathore, "Neuro-Fuzzy Analytics in Athlete Development: A Machine Learning Approach", *Springer Neural Computing and Applications*, 2021.
- **Heena Rathore**, Abhay Samant, Murtuza Jadliwala, "TangleCV: A Distributed Ledger Technique for Secure Message Sharing in Connected Vehicles", *ACM Transactions on Cyber Physical Systems*, 2020.
- **Heena Rathore**, Amr Mohammed, Mohsen Guizani, "A survey of Blockchain Enabled Cyber Physical Systems", *MDPI Sensors*, 2020.
- **Heena Rathore**, Abdulla Al-Ali, Amr Mohammed, Xiaojiang Du, Mohsen Guizani, "A Novel Deep Learning Strategy for Classifying Different Attack Patterns for Deep Brain Implants", *IEEE Access*, 2019.
- Nisha Vinayaga Sureshkanth, Anindya Maiti, Murtuza Jadliwala, Kristen Crager, Jibo He, **Heena Rathore**, "A Practical Framework for Preventing Distracted Pedestrian-related Incidents using Wrist Wearables", *IEEE Access*, 2018.
- **Heena Rathore**, Chenglong Fu, Amr Mohammed, Abdulla Al-Ali, Xiaojiang Du, Mohsen Guizani, Zhengtao Yu, "Multi-layer Security Scheme for Implantable Medical Devices", *Springer Special Issue of Neural Computing and Applications*, 2018.
- **Heena Rathore**, Lothar Wenzel, Amr Mohammed, Abdulla Al-Ali, Xiaojiang Du, Mohsen Guizani, "Multi-Layer Perceptron Model on Chip for Secure Diabetic Treatment", *IEEE Access*, 2018.
- **Heena Rathore**, Venkataramana Badarla, Supratim Shit, "Consensus Aware Sociopsychological Trust Model for Wireless Sensor Networks", *ACM Transactions on Sensor Networks*, Vol. 12, No. 3, 2016.

- **Heena Rathore**, Venkataramana Badarla and KJ George, "Sociopsychological Trust Model for Wireless Sensor Networks", *Elsevier Journal of Network and Computer Applications*, Vol. 62, pp. 75-87, 2016.
- **Heena Rathore** and Manish Goyal, "Reputable Path Recognition in Wireless Sensor Network using Intelligent Water Drop", *International Journal of Computer Applications* (0975 – 8887), Recent Advances in Wireless Communication and Artificial Intelligence, no. 3, pp. 26-32, 2014. ISBN : 973-93-80883-96-7
- Amit Kumar Sanghi, Dharm Singh and **Heena Rathore**, "A Study of Wireless Environment by means of Multiple Wireless Nodes", *IJCA Special Issue on Wireless Communication and Mobile Networks*, vol. 1, pp. 31-35, 2012. Published by Foundation of Computer Science, New York, USA. ISBN: 973-93-80864-62-5.
- **Heena Rathore**, Manish Goyal and Dharm Singh, "Simulation of Measurement Based Admission Control using NS2" , *International Journal of Computer Applications* and in proc. of International Conference on Communication and Networks(CoMNeT), 2011. ISBN: 973-93-80864-61-7.

Magazine

- **Heena Rathore**, "Trust Is the Bottleneck: Report from the 2nd IEEE EMBS Workshop on AI and Healthcare," in *IEEE Pulse*. 2026, doi: 10.1109/MPULS.2026.3659254.
- **Heena Rathore**, "Lone Star EMBS Section AI and Healthcare Workshop," in *IEEE Pulse*, vol. 16, no. 1, pp. 20-22, Jan.-Feb. 2025, doi: 10.1109/MPULS.2025.3526508.
- Rosalind Agasti, Rhonda Franklin, Rashaunda Henderson, Netra Pillay, **Heena Rathore**, Abhay Samant, Alex Stutts and Tom Weller, "IMS2025 Project Connect: It's Lucky 13," in *IEEE Microwave Magazine* , vol. 26, no. 5, pp. 137-140, May 2025, doi: 10.1109/MMM.2025.3535176.
- Rhonda Franklin, Rashaunda Henderson, Netra Pillay, **Heena Rathore**, Abhay Samant, Alex Stutts and Tom Weller, "Project Connect 2024: Building Community Across the Spectrum - Fostering Community Strength and Connectivity", *IEEE Microwave Magazine*, 2024.
- Rhonda Franklin, Rashaunda Henderson, Netra Pillay, **Heena Rathore**, Abhay Samant, Alex Stutts and Tom Weller, "IMS2023 Project Connect: 10 Years of Awesome [IMS2023]," in *IEEE Microwave Magazine*, vol. 24, no. 5, pp. 140-141, 2023.
- Himanshu Aggrawal, Rhonda Franklin, Amr Haj-Omar, Duane Harvey, Rashaunda Henderson, Ken Kahn, Michel Kornegay, Netra Pillay, **Heena Rathore**, Abhay Samant, Alex Stutts, Tom Weller, "IMS2022 Project Connect: High-Impact Connections", *IEEE Microwave Magazine*, vol. 23, no. 5, 120-129, 2022.
- **Heena Rathore**, "Neuroscience-Inspired Variable Reward Structure for Cooperative Machine Learning in Internet of Things", *TechSpace*, vol. 1, Issue 3, August 2021.
- Rhonda Franklin, Rashaunda Henderson, Netra Pillay, **Heena Rathore**, Abhay Samant and Tom Weller, "IMS2021 Project Connect: Connecting to Broaden Participation," *IEEE Microwave Magazine*, vol. 22, no. 5, pp. 70-71, May 2021.
- Rhonda Franklin, Rashaunda Henderson, Netra Pillay, **Heena Rathore**, Abhay Samant and Tom Weller, "IMS2020 Project Connect: Connectivity That Works," *IEEE Microwave Magazine*, vol. 21, no. 5, pp. 69-73, May 2020.

Book and Book Chapter

- **Heena Rathore**, Amr Mohamed, Mohsen Guizani, "Blockchain Applications for Health Care", *Book Chapter in Energy Efficiency of Medical Devices and Healthcare Facilities, Elsevier*, 2020.
- **Heena Rathore**, Amr Mohamed, Mohsen Guizani, "Deep Learning Based Security Scheme for Implantable Medical Devices", Book Chapter in *Deep Learning: Foundations, Applications and Challenges, Springer*, 2020.

- **Heena Rathore**, Mapping Biological Systems to Network Systems, *Springer Publications*, Feb 2016. ISBN: 978-3-319-29782-8.

Conference Publications

- Bishal Thapa, **Heena Rathore**, "Emotion-Conditioned Prompting Evaluation of LLM Moral Reasoning", *IEEE Healthcom*, 2026.
- **Heena Rathore**, Ronald Rodriguez, "Retrieval-Augmented Reinforcement Learning to Reduce Hallucinations in Patient-Facing Health LLMs", *IEEE Healthcom*, 2026.
- **Heena Rathore**, Henry Griffith, "Personalizing Large Language Models Digital Health Companions for Aging-in-Place Individuals", *IEEE Healthcom*, 2026.
- Roopika Ganesh, and **Heena Rathore**, "Repetition-Aware Reinforcement Learning from AI Feedback for Empathetic Dialogue", *The 14th IEEE International Conference on Healthcare Informatics (ICHI)*, 2026.
- Arjun Gyawali, Rakesh Das, **Heena Rathore**, "Can LLMs Classify Vehicular Basic Safety Messages Anomalies?", FLAIRS 2026.
- Alden Duarte-Vasquez, Bishal Thapa, Sahar Hooshmand, **Heena Rathore**, "Training Ethical Language Models via Reinforcement Learning from AI Feedback", FLAIRS 2026.
- **Heena Rathore**, "Innovate with AI: AI Entrepreneurship Camp Model to Empower Middle-School Students", *IEEE ISEC*, 2026.
- **Heena Rathore**, "AI as a Learning Companion in Security and Cryptography Education", *IEEE ISEC*, 2026.
- **Heena Rathore**, "Reimagining Cybersecurity Graduate Education Through Research-Based Role-Playing", *ASEE* 2026.
- Henry Griffith, **Heena Rathore**, "Student Perceptions and Use of Generative AI Tools in Engineering and Computing Classes", *ASEE* 2026.
- Shivangi Tripathi, Teancy Jennifer Rajesh, Henry Griffith, and **Heena Rathore**, "Paragraph-Level Hallucination Detection and Correction for Trustworthy Large Language Models in Networked Systems", *IEEE CCNC Workshop on 7th Security Trust Privacy for Cyber-Physical Systems (IEEE STP-CPS)*, 2026.
- Roopika Ganesh, and **Heena Rathore**, "Scaling MLFFN-based Lexicon Generation for Trustworthy and Explainable Cyber Physical Systems", *IEEE CCNC Workshop on 7th Security Trust Privacy for Cyber-Physical Systems (IEEE STP-CPS)*, 2026.
- Rakesh Das, Henry Griffith, **Heena Rathore**, "Distinguishing Sensor Faults and Malicious Attacks in Connected Vehicles Using Machine Learning", *23rd IEEE Consumer Communications and Networking Conference (IEEE CCNC)*, 2026.
- Shivangi Tripathi, and **Heena Rathore**, "Detecting and Correcting Hallucinations in Paragraph-Level Text with Ensemble-Based Evaluation", 7th IEEE International Conference on Trust, Privacy and Security in Intelligent Systems and Applications, 2025.
- Bishal Thapa, **Heena Rathore**, "Topic Modeling Analysis of Ethical Framework Separability in LLM-Generated Moral Justifications", 7th IEEE International Conference on Trust, Privacy and Security in Intelligent Systems and Applications, 2025.
- Julian Zarazura, Bishal Thapa, **Heena Rathore**, "Explaining the Black Box Through Ethical Decision Making in Large Language Models" to *IEEE International Performance, Computing, and Communications Conference (IPCCC)*, 2025.
- Bishal Thapa, Alden Duarte-Vasquez, Sahar Hooshmand, **Heena Rathore**, "Evaluation of Ethical Decision Making in Large Language Models Across Classical Moral Frameworks", The 7th IEEE International Conference on Artificial Intelligence Testing, 2025.

- Jacob Silva, Henry Griffith, and **Heena Rathore**, "Assessing the Ethical Alignment of Large Language Models Using Deep Embedding Models", The 7th IEEE International Conference on Artificial Intelligence Testing, 2025.
- Shivangi Tripathi, Teancy Jennifer Rajesh, Henry Griffith, and **Heena Rathore**, "REVISE: A Structured Framework for Paragraph-Level Misinformation Correction in Large Language Models", The 7th IEEE International Conference on Artificial Intelligence Testing, 2025.
- Rakesh Das, Henry Griffith, **Heena Rathore**, "SecureLLM: Leveraging Large Language Models for Fault Detection in Connected Vehicles", *5th IEEE Intelligent Cybersecurity Conference*, 2025.
- Rakesh Das, Henry Griffith, **Heena Rathore**, "LLM-Based Fault Detection in Connected Vehicle Time-Series Data", *5th ACM Workshop on Secure and Trustworthy Cyber Physical Systems*, 2025.
- **Heena Rathore**, and Henry Griffith, "Enhancing Cybersecurity Education Through Research-Based Role-Playing", *IEEE Integrated STEM Education Conference (ISEC)*, 2025.
- **Heena Rathore**, Pranay Jasti Chowdary, Henry Griffith, "Assessing Gender and Age Influences on Moral Decision-Making in Autonomous Vehicles Using Large Language Models", *CCNC Workshop*, 2025.
- Chris Shaner, Henry Griffith, **Heena Rathore**, "Assessing Moral Decision-Making in Large Language Models", *IEEE ICCE*, 2025.
- Gabriela Sanchez San Miguel, Henry Griffith, Jacob Silva, **Heena Rathore**, "Evaluating the Explainability of Large Language Models for Ethical Decision Making" *IEEE ICCE*, 2025.
- Bishal Thapa, Micaela Rivas, Henry Griffith, **Heena Rathore**, "StressLLM: Large Language Models for Stress Prediction via Wearable Sensor Data", *IEEE ICCE*, 2025.
- Mandil Pradhan, Brent Hoover, April Valdez, Henry Griffith, **Heena Rathore**, "Integrating Justice Theory into Moral Decision-Making for Autonomous Vehicles", IEEE ICCE, 2025.
- Mandil Pradhan, Brent Hoover, April Valdez, Henry Griffith, **Heena Rathore**, "Advancing Moral Decision-Making for Autonomous Vehicles", IEEE CCNC, 2025.
- Pranay Jasti Chowdary, Henry Griffith, **Heena Rathore**, "Eclectic Ethical Decision Making For Autonomous Vehicles", IEEE Mobisecserv, 2024.
- Shivangi Tripathi, Henry Griffith, **Heena Rathore**, "Assessing Hallucination in Large Language Models under Adversarial Attacks", IEEE Mobisecserv, 2024.
- Bishal Thapa, Henry Griffith, **Heena Rathore**, "Integrating Human Preferences for Moral Decision Making in Autonomous Vehicles", *EAI International Conference on Security and Privacy in Cyber-Physical Systems and Smart Vehicles*, 2024.
- **Heena Rathore**, Henry Griffith, "Personalized and Explainable AI to Safeguard Seniors against Destructive Behaviors", *4th Workshop on sociAL roboTs for peRsonalized, continUous and adaptIve aSsisTance, IEEE ROMAN* 2024.
- **Heena Rathore**, Henry Griffith, "A Novel Scavenger Hunt Activity for Increasing Student Engagement in Cryptography Coursework", *ASEE* 2024.
- Chris Shaner, Henry Griffith, **Heena Rathore**, "Exploring Gender Dynamics in STEM Education through the lens of Large Language Models", *IEEE ISEC*, 2024.
- Yasmin Saaid, **Heena Rathore**, Henry Griffith, "Advancing Skill-Based Pathways to Good Jobs in Artificial Intelligence at Community Colleges", *IEEE ISEC*, 2024.
- Gianna Voce, Henry Griffith, **Heena Rathore**, "Avoiding False Social Conformity in Majority-Malicious Connected Vehicle Networks Employing Consensus-Based Reputation Estimates", *IEEE ICCE*, 2024.
- Pranay Jasti Chowdary, Henry Griffith, **Heena Rathore** "Detecting and Mitigating Colluding Attacks in Connected Vehicles Using Reinforcement Learning", *IEEE ICCE*, 2024.

- Pranay Jasti Chowdary, Henry Griffith, **Heena Rathore** "A Multi-Level Dempster-Shafer and Reinforcement Learning-Based Reputation System for Connected Vehicle Security", *IEEE CCNC*, 2024.
- Abdullah Kamal, Zaid Jamal, Gabriel Rosales, Brian Robinson, Zach Sotny, **Heena Rathore**, "Image to Text Recognition for Detecting Human and Machine Altered News in Social Media", *The 10th International Conference on Internet of Things: Systems, Management and Security, IEEE IOTSMS*, 2023.
- **Heena Rathore**, Henry Griffith, "Leveraging Neuro-Inspired Reinforcement Learning for Secure Reputation-based Communication in Connected Vehicles", *8th IEEE International Workshop on Cyber-Physical Systems Security (CPS-Sec), IEEE CNS*, 2023.
- Marbella Castillo, Gianna Voce, Henry Griffith, **Heena Rathore**, "Poster: Decentralized Simulation Workflow for Enhancing Connected Vehicle Security", *ACM REUNS MobiHoc*, 2023.
- Gianna Voce, Marbella Castillo, Henry Griffith, **Heena Rathore**, "Poster: Opinion Dynamics for Enhancing Trust and Security in Connected Vehicle Networks", *ACM REUNS MobiHoc*, 2023.
- Henry Griffith and **Heena Rathore**, "Personalized Aging-in-Place Support through Fine Tuning of Generative AI Models", *IEEE Mobisecserv*, 2023.
- **Heena Rathore**, Pranay Jasti Chowdary, and Henry Griffith, "Distinguishing Sensor Faults and Attacks in Connected Vehicle Networks Using Two-Step Verification", *IEEE Mobisecserv*, 2023.
- **Heena Rathore** and Henry Griffith, "GNN-RL: Dynamic Reward Mechanism for Connected Vehicle Security using Graph Neural Networks and Reinforcement Learning", *IEEE SmartComp*, 2023.
- **Heena Rathore** and Henry Griffith, "Improving Reinforcement Learning Performance through a Behavioral Psychology-Inspired Variable Reward Scheme", *IEEE SmartComp*, 2023.
- Henry Griffith and **Heena Rathore**, "Promoting Research Career Pathways Amongst Engineering Transfer Students at Two-Year Institutions Using Course-Based Undergraduate Research Experiences (CURES)", *ASEE Annual Conference & Exposition*, 2023.
- Satyam Srivastava, **Heena Rathore**, Kamlesh Tiwari, "CEMDQN: Cognitive-Inspired Episodic Memory in Deep Q-Networks", *International Joint Conference on Neural Networks (IJCNN 2023)*, 2023.
- **Heena Rathore**, "Integrating Cyber Physical System Security Concepts in Computer System Security Curriculum", *2023 IEEE Integrated STEM Education Conference (ISEC)*, 2023.
- Harsh Agarwal, and **Heena Rathore**, "Novel Reinforcement Learning Algorithm for Suppressing Synchronization in Closed Loop Deep Brain Stimulators", *11th International IEEE EMBS Conference on Neural Engineering*, 2023.
- Henry Griffith, Malik Farooq, **Heena Rathore**, "A Data Generation Workflow for Consensus-Based Connected Vehicle Security", *IEEE ICCE Vegas*, 2023.
- Hamzeh Davarikia, Faycal Znidi, Masoud Barati and Heena Rathore, "A New Index based on Power Splitting Indices for Predicting Proper Time of Controlled Islanding," 2023 IEEE Texas Power and Energy Conference (TPEC), College Station, TX, USA, 2023, pp. 1-6, doi: 10.1109/TPEC56611.2023.10078684.
- Rebecca West, Adam Hooker, **Heena Rathore**, Henry Griffith, "Ubiquitous Multimodal Seizure Management Using Emerging Consumer Technologies", *ICCE-Asia*, 2022.
- **Heena Rathore**, Vikram Bhaduria, "Intelligent Decision Making in Autonomous Vehicles using Cognition Aided Reinforcement Learning", *IEEE WCNC*, 2022.

- **Heena Rathore**, Abhay Samant, "Using Control Theory and Bayesian Reinforcement Learning for Policy Management in Pandemic Situations", *WS01 ICC'21 Workshop – COVI-COM, IEEE ICC*, 2021.
- **Heena Rathore**, Abhay Samant, George Koutitas, Joseph Camp, "mmMoReEdge: A Modular and Reconfigurable mmWave Testbed using Edge-Inspired Architecture", *IEEE SmartEdge*, 2020.
- **Heena Rathore**, Abhay Samant, Mohsen Guizani, "A Bio-inspired Framework to Mitigate DoS Attacks in Software Defined Networking", *IEEE NTMS - Security Track*, 2019.
- **Heena Rathore**, Abhay Samant, Murtuza Jadliwala, Amr Mohammed, "TangleCV: Decentralized Technique for Secure Message Sharing in Connected Vehicles", *AutoSec Workshop in conjuction with ACM Conference on Data and Application Security and Privacy*, CODASPY 2019.
- **Heena Rathore**, Mohsen Guizani, Amr Mohammed, "Mathematical Evaluation of Human Immune Systems for Securing Software Defined Networks", *IEEE WINCOM*, 2018.
- **Heena Rathore**, Abdulla Al-Ali, Amr Mohammed, Xiaojiang Du, Mohsen Guizani, "DTW Authentication for Wireless Medical Device Security", *IEEE International Wireless Communication and Mobile Computing Conference (IWCMC)*, 2018.
- **Heena Rathore**, Abhay Samant, George Koutitas, "Modular and Reconfigurable Testbed for 5G Systems and Applications", *G-TEST: 5G Testbeds, Applications, Standards and New Business Models*, Greece, IARIA 2018. Got best paper award.
- Nisha Vinayaga Sureshkanth, Anindya Maiti, Murtuza Jadliwala, **Heena Rathore**, "Towards a Practical Pedestrian Distraction Detection Framework using Wearables", *2018 IEEE International Conference on Pervasive Computing and Communications Workshops (PerCom Workshops)*. Got Best Paper award.
- **Heena Rathore**, Abdulla Al-Ali, Amr Mohammed, Xiaojiang Du, Mohsen Guizani, "DLRT: Deep Learning Approach for Reliable Diabetic Treatment", *IEEE GlobeCom* 2017.
- **Heena Rathore**, Amr Mohammed, Abdulla Al-Ali, Xiaojiang Du, Mohsen Guizani, "A Review of Security Challenges, Attacks and Resolutions for Wireless Medical Devices", accepted *IEEE International Wireless Communication and Mobile Computing Conference (IWCMC)*, no.13, 2017.
- **Heena Rathore**, Venkataramana Badarla, Sushmita Jha and Anupam Gupta, "Novel Approach for Security in Wireless Sensor Network using Bio-Inspirations," in proc. *IEEE International Conference on Communication Systems and Networks (COMSNETS)*, no. 6, pp. 1-8, 2014.
- **Heena Rathore**, Venkataramana Badarla, "Primary Secondary Immune Response Adaptation for Wireless Sensor Networks," in *11th IEEE International Conference on Sensing, Communications and Networking (SECON)*, 2014.
- **Heena Rathore**, Sushmita Jha, "Bio-Inspired Machine Learning Based Wireless Sensor Network Security", in proc. *IEEE World Congress on Nature and Biologically Inspired Computing (NaBIC)*, no. 6, pp. 140 - 146, 2013.
- **Heena Rathore**, Abhay Samant, "A System for Building Immunity in Social Networks", in proc. *IEEE World Congress on Nature and Biologically Inspired Computing (NaBIC)*, no.4, pp. 20-24, 2012.
- **Heena Rathore**, Abhay Samant, Sapana Ranwa, "Modular Network Effects on Communicable Disease Models", in proc. *IEEE Asia Modeling Symposium*, no. 6, pp. 126 - 131, 2012.
- Dharm Singh, **Heena Rathore**, Chih-Heng Ke "Dynamic Adaptive Crosslayer Mapping Mechanism for Video", in proc. *IEEE International Conference on Networks and Computer Communications (ETNCC2011)*, pp 205-208, 2011. ISBN 978-1-4577-0238-9.

Press Articles/ Media Recognition

- University Star, Texas State University, Proposed SMTX data centers pose environmental risks
- Newspaper Article for opinion on data centers, Data Centers Spark Protests
- Media Article, SAC Professor Wins Renewed Google Funding for Undergraduate Research in Artificial Intelligence, 2024.
- KXAN TV, Interview, 2024.
- WorkMob, Heena Rathore, Advising Students to Utilize Technology Effectively and Emphasizing Practical Knowledge for the Students, 2023.
- ACM Ubiquity, A Conversation with Heena Rathore Building Secure Cyber-Physical Systems, 2022.
- UTSA CS Department Science Newsletter, Spring 2022.
- UTSA Today, UTSA's focus on career pathways for historically marginalized students sees early success, 2022.
- Featured on National Awareness Times on the occasion of National Education Day, Educationist Empowering India 2020.
- IEEE Comsoc Global Communication Newsletter, November 2020.
- UTSA CS KickStart Newsletter, Quarantine: Stay Positive.
- Interview with IEEE.tv on "Value of IEEE Senior Membership" and featured talk.
- IEEE Central Texas Section Region Monthly Newsletter, July Newsletter, August Newsletter, November Newsletter, December Newsletter
- Global Engineering Impact Award 2019, Advanced Research Category
- Financial Express News 2018, Making Medical Implants Hacker-safe
- Science Reporter News, NISCAIR, 2018, Securing Implantable Medical Devices
- Indian Science Journal News 2018! Inspired by ancient wisdom, Indian scientist develops anti-hacking solution for implanted devices
- Everything RF News 2018! "Horn, OK Please" to "Talk, OK Please": The Road to Self-Driving Cars
- Microwave Journal News 2018! Research Team Mimics Human Brain to Make IoT Devices More Secure
- Featured on TedX, Qatar held by Tedxaldafnaed, Qatar, 2017 Cross-Field Research Balances Work between Theoretical Sciences for the Development of Practical Tools
- The Times of India, 2017 IIT researcher develops solution for cyber security
- India Today, 2017 Inspired by biology, IIT researcher develops solution for cyber security
- India Tech Online, 2013 Graphical System Design: NI Application of the Year Winners 2013

Workshop Organized

- NVIDIA Workshop on "Building AI Agents with Multimodal Models", 30 certificats were issued.
- Second Annual IEEE EMBS Workshop on AI and Healthcare on Dec 5, 2025.
- IEEE EMBS Workshop on AI and Healthcare on Dec 6, 2024.
- Local Arrangements Chair and Treasurer for ACM WiSec 2022.

Keynote and Invited talks

Keynote Speaker

- International Conference on Responsible, Risk-Aware and Regulated AI (RRRAI-2026), Bharati Vidyapeeth (Deemed to be University), College of Engineering, Pune, India.
- 2nd International Conference on Data Driven Computing & IoT (DDCIOT 2025).
- 5th International Conference on "Advancements in Nano-Electronics & Communication Technologies (ICANCT-2025), SKIT, India, 2025.
- Fourth International Conference on Data Science and Big Data Analytics, Symbiosis University of applied Sciences, 2024.
- International Conference on Emerging Trends in Networks and Computer Communications (ETNCC), 2023.
- International Conference on Data Driven Computing and Internet of Things (DDCIOT 2021), Gits, India, March 20 2021.
- TEQIP sponsored International Conference on Recent Challenges and Opportunities in Engineering (ICRCOE 2021), March 15 2021.
- ACM Annual International Conference on Data Science, Machine Learning and Blockchain Technology, Mysore, India, Feb 2021.
- International Conference on Advancements in Nanoelectronics and Communication Technologies, SKIT India, Feb 2021.
- International Advisory Committee, TEQIP sponsored International Conference on Recent Challenges and Opportunities in Engineering (ICRCOE 2021), March 2021.
- SES International Conference, University of Cambridge, Rome, Italy, September 2020.
- IEEE SKIT, Jaipur, India on "Blockchain Applications for Health Care: State of the Art and Future Directions", September 2, 2020.
- "Internet of Things" organized by Department of Computer Science and Engineering, Geetanjali Institute of Technical Studies, August 2020.
- "International Colloquium on Recent Trends in Computer Science", sponsored by Vidyavardhaka College of Engineering, Mysuru, Wireless Inter Networking Group(WING), ACM, 24 July, 2020. Webinar Link
- ACM tech talk at University of Texas, San Antonio, ACM Student Chapter, February, 2020. Link
- International Seminar on "Bio and Social Psychology Inspired Techniques to make IoT devices Secure" at Geetanjali Institute of Technical Studies, India, Jan 2020.
- College of Technology and Engineering, Maharana Pratap University of Agriculture and Technology, India, Jan 2020.
- Carnegie Mellon University in Qatar on "Security in Software Defined Networking" organized by 5th edition of the annual Hackathon at Carnegie Mellon University Jan 2017.

Invited Speaker

- Shortlisted Session on "AI with an Entrepreneurial Twist: Engaging Middle School Learners", 2026 Alamo STEM Ecosystem Educator Conference, 2026.
- "LLM and Ethical Decision Making", EGR 6991 Engineering Education Research Seminar Series at UTSA, Feb 2026.
- Featured Speaker, International Symposium on Leveraging AI to Strengthen Innovation and Research Ecosystem, LASIRE-2026.
- Expert Session, "Generative AI in Cybersecurity: Friend, Foe, or Both", Cybersecurity AWareness And Creative Handholding - Cawach Kendra, August 2025.

- Expert Session, Digital Therapists: Exploring AI's Role in Mental Well- Being, Faculty Development Program (FDP) Vidush Somany Institute of Technology and Research (VSITR) September 2025.
- Expert Session, AICTE-sponsored ATAL FDP on "Generative AI and Its Applications with Computer Vision" held from 16th to 21st December 2024.
- Expert Speaker, "Health-LLM: Large Language Models for Health Prediction", GITS December 2024.
- Enhancing Autonomous Decision-Making in Space Vehicles with Artificial Intelligence, AFRL Space Cyber Summit 2024, Air Force Research Lab, New Mexico, 2024.
- "Enhancing Security in Connected Vehicles Using Distributed Ledger Techniques", SAC Cyber Month Program, October, 2024.
- "Introduction to AI", SAC/UTSA Engineering Transfer Bridge Program, September, 2023.
- "Revolutionizing Mental Health Care: The Role AI in Promoting Well Being", IEEE Lone Star Section Life Members, 2023.
- "Deep Reinforcement Learning", 4th Indian Workshop on Applied Deep Learning, BITS Pilani, 2023.
- "Enhancing Humanness in Future Generation Cyber Physical Systems", GITS Udaipur, 2023.
- EMBS Chapters Torch Relay Public Webinar, IEEE Day 2022.
- EMBS One Chapter One Story, IEEE Day 2022.
- "Revamping Quality for Academic and Placement Abroad", ACM Women India Grad Cohort Workshop, 2022.
- Princeton ACM / IEEE-CS Chapters Joint Meeting 2022.
- Duke University, "Using Cognitive Machine Learning to Build Safe and Secure Internet of Things Devices", November 2, 2021.
- Session on Communications and Networking, IEEE 7th World Forum on Internet of Things, July 2021.
- Special Session on smart health and internet of medical things, IEEE 7th World Forum on Internet of Things, June 2021.
- Tinker with AI, UTSA Matrix, May 2021.
- ACM Sacramento Chapter Future Worlds AI & ML – Virtual Lecture, May 2021.
- Faculty Development Programme on Modern Cryptography, Blockchain & IoT Security : Challenges, Solutions & Future Prospects (MCB-IoTs-2021) organized by Dept. of CSE at (UIT-RGPV) Bhopal, March 25 2021.
- CSE Webinar organized by IIT Jodhpur, on "Brain Variable Reward Structure for Cooperative Machine Learning in IoT Network", March 19 2021.
- "2020 International Symposium on Automation, Information and Computing", ISAIC, Beijing, China, December 2020.
- Short Term Training Program on Cyber Security and Forensics, organized by Sri Aurobindo Institute of Technology, India, October 2020.
- IEEE Life Members Affinity Group September Meeting, "Using Machine Learning Algorithms for Public Health Policy Management in Pandemic Situations". September 17, 2020.
- IEEE EMBS Chapter, San Antonio, "A Novel Deep Learning Strategy for Classifying Different Attack Patterns for Deep Brain Implants" January, 2020.
- AT&T labs, Austin, USA by IEEE Austin ComSoc & SP and EMBS & Computer Joint Chapters, IEEE Austin Special Session on "Data Analytics for Improved Security in Intelligent Autonomus Vehicles", 19 December 2019.

- Volgenau School of Engineering, George Mason University, "Secure Information Systems", December 2019.
- I International engineering congress in the Industry 4.0, Universidad Continental, Peru, South America, November 2019.
- Department of Computer Science, the University of Texas at San Antonio, "Pointers in C", August 2019.
- "Virtual Memory" at Department of Computing Sciences, Texas A&M University-Corpus Christi, July 2019.
- University Transportation Center (UTC) Undergraduate Internship (UI) 2019 Summer Symposium Series at UT, Austin on the topic, "Data Analytics for Cooperative Intelligent Transport Systems", July 23 2019.
- IEEE ComSoc Summer School at National Instruments, Austin on July 17, 2019.
- "Cyber Physical Systems" at School of Computer Science and Mathematics at University of Central Missouri, Warrensburg, MO on July 8, 2019.
- "Special Topics on Database Systems" at the Department of Computer Science and Engineering at the University of Texas at Arlington, Texas on July 5, 2019.
- "Strategies for Making Cyber Physical Systems Secure" at ECE department, Concordia University, Montreal, Canada, 28 March 2019.
- *AT&T* labs, Austin by IEEE Austin USA ComSoc & SP and EMBS & Computer Joint Chapters to present on "Improving Security in the Internet of Things(IoT) through Bio-Inspired Approaches", December, 2018.
- IEEE Austin USA ComSoc & SP and EMBS & Computer Joint Chapters to present on "Security Solutions for the Internet of Medical Things" at *AT&T* labs, Austin by October, 2018.
- Centre of Transport Research-The University Transportation Center (UTC) Undergraduate Internship (UI) 2018 Summer Symposium Series at University of Texas, Austin on the topic, "Blockchain Technology to Make Self-Driving Cars Safer", USA, 2018.
- Talk at Young Professional Track at the IEEE Region 10 Humanitarian Technology Conference, Agra December 2016.
- Talk as IT Expert on 101.3 FM Udaipur on 4/8/2012.
- Talk and live implementation on "Software Testing Test Bed for Video Traffic over Wireless Networks" in National workshop on quality assurance services for software and web applications organized by SIG-WN's, CSI, KGH Solutions, United Arab Emirates, Unico Management Solutions on 21 August, 2010.

Professional Activities

Editorial Board:

- Editorial Board Member, Academia Biomedical Engineering. 2026-Present
- Editorial Board Member for Humanities & Social Sciences Communications. 2025-2028
- Topic Editor, Secure Cyber Physical Systems: Machine Learning and Cryptography, 2025.
- Guest Editor, Special Issue on Safety of Real-Time and Cyber-Physical Systems, Electronics, 2024.
- Editor, Frontier "Smart Wearables Implementation for Assistive and Preventive Care"
- Guest Editor Discrete Dynamics in Nature and Society, Special Issue on Computation and Modelling of Economic and Financial Complex Systems.
- IoT and Sensor Networks (specialty section of Frontiers in Communications and Networks), 2021.
- Guest Editor, Special Issue on "Intelligent Control of Actuator Systems", MDPI Journal, 2021.

- Guest Editor for the special issue "Parallel and Distributed Deep Learning", Springer Journal of Grid Computing, 2018. This journal is indexed by SCI.

Technical Program Committee:

- The 24th IEEE/ACIS International Conference on Software Engineering Research, Management and Applications (SERA 2026).
- ACM Workshop on Secure and Trustworthy Cyber-Physical Systems (SaT-CPS 2026, 2025, 2022, 2021).
- ACM International Workshop on Blockchain-enabled Networked Sensor Systems (BlockSys) 2022, 2020.
- IIT'20 (IEEE 14th International Conference on Innovations in Information Technology (IIT)).
- Sixteenth International Conference on Wireless and Mobile Communications, IARIA, Portugal 2020.
- International Conference on Secure Knowledge Management in Artificial Intelligence Era, 2019.
- ACM Symposium on Access Control Models and Technologies (SACMAT), 2019.
- SKM 2019, Secure Knowledge Management Workshop December 21 - 22, 2019, BITS Pilani, Goa Campus, Goa, India.
- IEEE ETNCC 2015, International Conference on Emerging Trends in Network and Computer Communication, Namibia University of Science and Technology, Windhoek, Namibia.
- IEEE NEXTCOM-2017 International Conference on Computational Strategies for Next Generation Technologies, India.

Session Chair-Panelist:

- Panelist, "IBM Granite and CT OpenSource AI Connect" at Quinnipiac University, 2026.
- Panelist, "Data Center Community Information Session", San Marcos Data Center Action Coalition, June 2025.
- Panelist, "Ethics and AI", Leadership San Antonio Association, April 2025.
- Panelist for NSF, Jan 2025.
- Panelist for NSF GRFP, December 2024.
- Session Chair, S1-3:CT01: Application-Specific CE for Smart Cities (SMC), ICCE 2025.
- Session Chair, Session 34 (Security, Privacy, and Content Protection), CCNC 2025.
- Judge, CoED ASEE Poster Session, 2024.
- Session Chair, Track 4/6 Security, Privacy, and Content Protection, IEEE CCNC, 2024.
- Session Chair, S20 CT12-2 Security and Privacy of CE Hardware and Software Systems II (SPC), IEEE ICCE, 2024.
- Panelist, Developing Career Pathways in Data Science and AI at Community Colleges, ADSA Annual Meeting, 2023.
- Supporting Mentor for NSF CIMA LSAMP Alliance, San Antonio College, 2023.
- Panelist, "N2 Women Event: Inclusive Excellence - What does it actually mean?" at IEEE SmartComp, 2023.
- Session Chair, "Deep Learning Theory", International Joint Conference on Neural Networks, IJCNN, 2023.
- Panelist for NSF, December 2022
- Panelist for San Antonio Community College STEM Career Event, November 2022.
- Session Chair, International Conference on Information Systems and Emerging Technologies and International Conference on Machine Learning and Artificial Intelligence, November 2022.

- Speaker, Panelist for IEEE 7th World Forum on Internet of Things (WF-IoT 2021) Vertical and Topical sessions, June 2021.
- Session chair for AI for CPS Security SaT-CPS 2021: Secure and Trustworthy Cyber-Physical Systems, April 28, 2021.
- Panelist First Doctoral Symposium, ACM Mysore, Jan 2021.
- Session Chair for Security Track "2020 International Symposium on Automation, Information and Computing", ISAIC, Beijing, China, December 2020.
- Panelist, IEEE Smart City Summit, Disruptive Technologies enabling Innovative smart city use cases, (5G, IOT and AI), Austin, November 2019.
- Session Chair for the track, "Security and Usability" at 10th IFIP IEEE International Conference on New Technologies, Mobility and Security, Spain June 2019.
- Session chair for the track "Communication" at The Seventeenth International Conference on Networks (ICN2018) held at Athens, Greece, 2018.
- Panelist at Communications Track on Theme: "Challenges in Urban and Mobility Systems and Networks" at NexComm 2018, April 22, 2018 to April 26, 2018 - Athens, Greece. Talk on, "Blockchain Technology and self-driving cars".
- Session chair for track on "Cellular 1" at IEEE Sensing, Communications and Networking (SECON), 2014.

Administrative-Organizational Activities:

- Contest Co-Judge and Foreign Teams Contact, ICPC TxState TEXAS-MEXICO Invitational Programming Contest 2023-2025.
- Round Table Leader, Round Table Leader at New Tenure Track Orientation-Faculty Development. (August 16, 2023).
- University Mentor, CoSE teaching workshop, Texas State University. (August 9, 2023).
- Panelist, Google Sponsored CS Launchpad Event, Texas State University, September 2023.
- Publicity co-chair for 1st ACM Workshop on Recent Trends of Internet of Softwarized Things (IoST-5G&B) in conjunction with ICDCN 2021.
- Scientific Conference Committee Chair Member for workshop 1st International Electronic Conference on Actuator Technology: Materials, Devices, and Applications.
- Organized International Seminar on "Blockchain Technology and Innovative Applications" at the Department of Computer science and Information Technology, Janardan Rai Nagar Rajasthan Vidyapeeth (Deemed-to-be University), Udaipur and in Collaboration with Computer Society of India, Udaipur Chapter.
- Organizing Committee Member, "IEEE Summit on Disruptive Technologies and Applications Towards Smart Cities", Austin, October 2019.
- Member of Steering committee for IMS2018, IMS2019, IMS 2020 Project Connect, which provides opportunities for students from under-represented minorities to network with industry and academic experts in the area of RF and Microwave Engineering.
- Proctor at Wichita State University, Kansas, USA for CMfgE exam, November 2016.

Reviewer:

- 2026: JMIR, ASEE 2026, SAT CPS, Pervasive and Mobile Computing
- 2025: SAT CPS, Pervasive and Mobile Computing
- 2024: Springer Cluster Computing, Elsevier Transport Policy, IEEE Transactions on Intelligent Transportation Systems.

- 2023: IEEE Transactions on Consumer Electronics, IEEE International Conference on Device Intelligence, Computing and Communication Technologies, IEEE Internet of Things.
- 2022: ACM Distributed Ledger Technologies, IEEE Internet of Things Journal, ACM Computing Surveys, Artificial Intelligence Review, IEEE Transactions on Cognitive Communications and Networking, IEEE Sensor Letters, Southeast Decision Sciences Institute 2022.
- 2021: IEEE Transactions on Cognitive Communications and Networking, ACM Computing Surveys, Springer Cluster Computing, IEEE Transactions on Cognitive Communications and Networking, Elsevier Computer Networks, ACM Computer Surveys, IEEE World Forum on the Internet of Things, IEEE Access, MDPI JRFM, IEEE Transactions on Industrial Informatics, MDPI Sensors, Southeast Decision Sciences Institute.
- 2020: IEEE Transactions on Network Science and Engineering, Computer Networks, IEEE Open Journal of Circuits and Systems, Springer Human-centric Computing and Information Sciences, Inderscience International Journal of Swarm Intelligence, MDPI Journal of Risk and Financial Management, Springer MultiMedia Tools and Applications, Springer Cluster Computing, Elsevier Information Processing and Management, Information Systems Frontiers, IEEE Transactions on Intelligent Transportation Systems, MDPI Mathematics, Journal of Sensors, International Journal of Information Security, Elsevier Sustainable Cities and Society, Elsevier Computer & Security, International Journal of Distributed Sensor Networks, MDPI International Journal of Financial Studies, MDPI Sustainability, IEEE Transactions on Industrial Informatics, IEEE Access.
- 2019: IEEE Internet of Things, ACM Computing Surveys, Elsevier EE-Health, Elsevier Journal of Information Security and Applications, IEEE Wireless Communications Magazine, ACM Transactions on Cyber-Physical Systems, Elsevier Building and Environment, CECNet2019, International Journal of Information Security, IET Smart Cities, IEEE Access, IET Wireless Sensor Systems, ICDIS, IET Communications, IET Electronic Letters, IET Networks.
- 2018: IEEE Access, IEEE IPCCC, IEEE Internet of Things Journal, IET River Valley Technologies, SNSP, IEEE ICCCN, IEEE ICC, IET The Journal of Engineering.
- 2017: IPCCC, CEEC, Elsevier Ocean Engineering Journal, IEEE PIMRC, IEEE Access, Journal of Decision Systems, AsiaCCS, ICCCN.
- 2016: IEEE IET Wireless Sensor Systems, Wireless Communications and Mobile Computing, IPCCC, IEEE symposium on Multimedia, IEEE ANTS, IEEE ICCCN, IEEE SmartGrid Comm, BDCloud.
- 2015: IPCCC.

Professional Development Training

- AI in Cybersecurity Education, Faculty Development Summer Institute, The George Washington University, Washington, D.C. **2026**
- Affinity Research Groups: Creating and Maintaining Effective Research Groups Course **2026**
- Texas State University I-Corps, Faculty Innovation Accelerator Program **2023**
- stEm PEER Academy Fellow, associated with the NSF Engineering PLUS Alliance **2023**
- AWS Academy Graduate - AWS Academy MLU Machine Learning through Application **2023**
- Machine Learning Intensive Bootcamp I and II, Sponsored by The Coding School, and AWS **2023**
- Badge Coach, Micro-credential Design Initiative, Alamo Colleges **2023**
- Summer Institute training by Distance and Extended learning program by Texas State University **2023**
- ACUE Teaching Fellow **2022**
- Adobe Creative Cloud Professional Training by UTSA **2022**

- Quality Matters Training hosted by UTSA **2022**