Auburn University Center for Artificial Intelligence & Cybersecurity Engineering (AU-CAICE)
Seminar

When: Thursday, January 23, 2025, 9:00 – 9:50am
Where: 3107 Shelby Center and on Zoom @ *https://auburn.zoom.us/j/87518668107*

Title: Cross-Disciplinary Cybersecurity Research and AI-Driven Solutions for Global Challenges
Dr. Hossein Sarrafzadeh, University Distinguished Professor, Director, Center of Excellence in Cybersecurity Research, Education, and Outreach (CREO), North Carolina A&T State University

Abstract: This presentation highlights a series of transformative projects established at the Center of Excellence in Cybersecurity Research, Education, and Outreach at North Carolina A&T State University. These initiatives span critical areas such as secure smart cities, smart hospitals, election security, autonomous vehicle protection, disaster recovery security, quantum cryptography, and bee health diagnosis, all leveraging the power of artificial intelligence and machine learning.

Complementing these projects are educational programs designed to equip students with cutting-edge skills in security operations, ethical hacking, and penetration testing, utilizing advanced tools like cyber ranges and a student-operated Security Operations Center. These efforts have fostered a robust ecosystem that integrates research, education, and practical application.

Through this presentation, I aim to stimulate dialogue and foster cross-institutional collaboration, exploring opportunities to expand the impact of cybersecurity and AI innovations across diverse domains.

Bio: Hossein Sarrafzadeh is a University Distinguished Professor and the Director of the Center of Excellence in Cybersecurity Research, Education and Outreach at NC A&T State University. He has worked in the areas of IoT, data mining and machine learning in cybersecurity and cybersecurity in Smart Cities and Smart Grid Security. He developed one of the world's first real-time facial expression and gesture recognition systems for emotion recognition. He has founded several cybersecurity research and operation centers. He has a number of inventions and patented systems in computer vision, cybersecurity and cloud security. Dr. Sarrafzadeh has published over 190 research articles and secured over $30M of funding in the past 5 years.