

Seminar



Cybersecurity Threats, Opportunities, and Possibilities for Collaboration in Research and Education Across North Carolina

Abstract. With the significant increase in the amount of time we spend online, combined with the overwhelming amount of data being produced, the significance of cybersecurity has continued to grow substantially. The growing volume and sophistication of cyber attackers and attack techniques complicate the problem even further. This presentation will discuss the threats of national significance and the relevant research being conducted at NC A&T's Center of Excellence in Cybersecurity Research, Education and Outreach with the aim of stimulating research collaboration. Projects in the areas of cybersecurity monitoring and alerting, smart grid security, election security, biological information processing and security and drone security will be presented. The idea of Earn-As-You-Learn Programs in cybersecurity workforce development is discussed and security operations centers, and cybersecurity health checks, are presented as examples. Areas of potential collaboration will be discussed at the conclusion.

Biography. Dr. 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 a PhD in computer science specializing in artificial intelligence and machine learning. He has worked in the areas of human computer interaction, emotion detection, software engineering, IoT, and cybersecurity. He developed one of the world's first real-time facial expression and gesture recognition systems for emotion recognition to enhance human computer interaction. He has a number of inventions and patented systems in computer vision, cybersecurity and cloud security. Dr. Sarrafzadeh has published over 180 research articles and secured over \$15M in funding. He has supervised over 50 Masters and PhD students to completion.



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<https://www.ncat.edu/news/2020/09/sarrafzadeh-creo.php>

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Time: 2:00 - 3:00pm

Microsoft Teams
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