

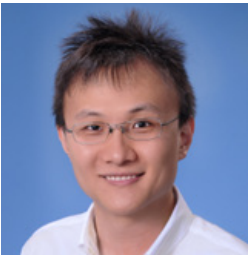


Panel Leader: Victor Murray, CISSP

Biography: Mr. Murray is an assistant director at Southwest Research Institute and is a Certified Information Systems Security Professional (CISSP). He has over 20 years of experience leading the development and testing of embedded systems. He has performed penetration tests and risk assessments, developed secure systems, and performed cybersecurity related research. He has supported projects across multiple industries including critical infrastructure, commercial automotive, transportation, aerospace, and defense. Mr. Murray has led many projects including penetration testing, applying zero trust principles to embedded systems, and developing intrusion detection systems.

The Use of Artificial Intelligence in Cybersecurity

Remarks Description: Welcome to our panel discussion on the transformative role of artificial intelligence in cybersecurity. Today, we will explore how AI is both enhancing security measures and being utilized by cybercriminals, touching on the various challenges and ethical considerations that arise. Our panel will also discuss future trends and developments, examining how AI will shape the cybersecurity landscape moving forward. Join us as we delve into these critical issues and uncover insights to better protect our digital world.



Panel Member: Zechun Cao, Ph.D.

Biography: ZECHUN CAO received the Ph.D. degree in Computer Science from the University of Houston. He is currently an Assistant Professor in the Department of Computational, Engineering, and Mathematical Sciences at Texas A&M University–San Antonio. His research interests include computer security, graph-centric computing, and privacy-preserving algorithms. He has authored and coauthored publications in areas such as network and software security, cloud computing, and privacy-preserving natural language processing. His research has been supported by the National Science Foundation (NSF), the American Society for Engineering Education (ASEE), Google, and internal funding from Texas A&M University–San Antonio.



Panel Member: Jonathan Esquivel

Biography: Jonathan Esquivel is a senior research computer scientist for Southwest Research Institute in San Antonio, Texas. He has a background in cyber security, data science, and machine learning with advanced degrees in computer science and mathematics. During his time at the institute, Mr. Esquivel has influenced numerous applied machine learning technologies across a wide variety of areas including fugitive leak detection, traffic system monitoring, automotive cyber security, markerless motion capture, and general computer vision applications. During this time, he has been a key leader for algorithm development across several intrusion detection technologies in the automotive, Department of Transportation, and critical infrastructure industries.



Panel Member: Gonzalo De La Torre Parra, Ph.D.

Biography: Gonzalo De La Torre Parra is an accomplished assistant professor in the Department of Engineering, Computing, and Cybersecurity at the University of the Incarnate Word. He earned his Ph.D. in Cybersecurity from the University of Texas at San Antonio in 2021, where he also worked as a research fellow, leading several cyber security projects in collaboration with industry partners, including CPS Energy and CISCO.

Gonzalo holds a Bachelor's degree in Electrical Engineering from Texas AM University-Kingsville, which he earned in 2009, and a Master's degree in Electrical Engineering from The University of Texas at San Antonio, which he obtained in 2015. His primary research interest lies in applying artificial intelligence techniques to tackle cyber security challenges in cloud computing, edge computing, and Internet of Things technologies. As a leading expert in his field, Gonzalo has contributed significantly to academia and industry, and he continues to mentor and inspire the next generation of cybersecurity professionals.



Panel Member: César A. Uribe, Ph.D.

Biography: César A. Uribe received his BSc. in Electronic Engineering from Universidad de Antioquia in 2010. He then received an MSc. in Systems and Control from Delft University of Technology in the Netherlands in 2013. In 2016, he received an MSc. in Applied Mathematics from the University of Illinois at Urbana-Champaign. He continued at the University of Illinois at Urbana-Champaign, and in 2018 received his Ph.D.

in Electrical and Computer Engineering. Uribe was a Postdoctoral Associate in the Laboratory for Information and Decision Systems-LIDS at the Massachusetts Institute of Technology (MIT) and a visiting professor at the Moscow Institute of Physics and Technology. His research interests include distributed learning and optimization, decentralized control, algorithm analysis, and computational optimal transport. He joined Rice ECE Department as Louis Owen Assistant Professor in January 2021.



Panel Member: Steven Ullman, Ph.D.

Biography: Dr. Steven Ullman is an Assistant Professor in the Department of Information Systems and Cybersecurity at UT San Antonio in the College of AI, Cyber and Computing. Dr. Ullman's research is centered in AI and cybersecurity, where he focuses on developing AI-based methods for enhancing vulnerability detection, remediation, and management, particularly for open-source software and IT infrastructure.

He has published his research in the Journal of Management Information Systems, AIS Transactions on Replication Research, ACM KDD AI4Cyber Workshop, and IEEE Intelligence and Security Informatics Conference. Dr. Ullman has presented his research through invited talks at the INFORMS Annual Meeting, the Open Data Science Conference (ODSC), and the Hawaii International Conference on System Sciences (HICSS). His research has also been funded by multiple grants from the NSF's cybersecurity programs, including the Secure and Trustworthy Cyberspace (SaTC) and Cybersecurity Innovation for Cyberinfrastructure (CICI) programs. He is a member of the IEEE, ACM, AIS, and INFORMS.