Institute for Cyber Security (ICS)

Ravi Sandhu

Executive Director
Professor of Computer Science
www.ics.utsa.edu

Curriculum

- ICS is a multi-disciplinary research center
- Curriculum activities are in collaboration with academic units in the Colleges of Science, Engineering, Business and Education

Facilities

- FlexCloud: multi-cloud laboratory for secure cloud computing and IoT research
- FlexFarm: honeyfarm for malware research
- Hosted in UTSA's research data center
- Managed by professional technical staff

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VISION/MISSION

Vision: World Leading Research with Real-World Impact!   **Mission:** Excellence in graduate-level sponsored research

MAJOR RESEARCH AREAS INCLUDE

- Secure Cloud Computing
- Secure Internet of Things
- BlockChain Applications
- Big Data Security
- AI for Cyber Security

- Trustworthy AI
- Malware
- Cyber Security Dynamics
- Android Security
- ………………

Research Productivity

CORE FACULTY INCLUDE

Computer Science:
- Ravi Sandhu
- Murtuza Jadliwala
- Jianwei Niu
- Shouhuai Xu
- Xiaoyin Wang

Elect. and Computer Engg:
- Yufei Huang
- Ram Krishnan
- Jeff Prevost

Info. Systems and Cyber Security:
- Nicole Beebe
- Raymond Choo

Education:
- Guadalupe Carmona

FUNDING: Primarily NSF, DoD and other Federal Agencies

RECENT GRANTS INCLUDE

- NSF: CREST Center for Security and Privacy Enhanced Cloud Computing (C-SPECC), 2017-2023
  PI: Sandhu, Co-PIs: Beebe, Carmona, Krishnan, Prevost
- NSF: Surviving Cybersecurity and Privacy Threats in Wearable Mobile Cyber-Physical Systems, 2018-2020
  PI: Murtuza Jadliwala
- NSF Career: Software Environment Analysis and Configuration for DevOps Practice, 2019-2024
  PI: Xiaoyin Wang
- NSF Career: Group-Centric Secure Information Modules, Properties, and Implementation, 2016-2021
  PI: Ram Krishnan
- DoD-ARL: Modeling, Analyzing and Predicting Cyber Attacks, 2017-2022
  PI: Shouhuai Xu
- DoD-ARO: A Quantitative Framework for Modeling and Orchestrating Moving-Target Defense, 2017-2020
  PI: Shouhuai Xu

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