

Faculty Research Interests

Faculty Member	Research Interest
David Berteau (Maxwell)	Defense applications, Cybersecurity, Simulations and exercises, Executive training, Public-private interface, and Systems integration.
Scott Bernard (IST)	Public Administration and Policy, IA Management and Policy, IA-Architecture Relationships
Howard Blair (ECS)	Logic, Knowledge representation, and Complex systems.
G. Matthew Bonham (Maxwell)	E-Government, International security
Steve Chapin (ECS)	Operating systems, Networking, and Security
Shiu-Kai Chin (ECS)	Formal Methods, High-confidence system design and Information security
Kevin Crowston (IST)	Organizational processes
Joan Deppa (Newhouse)	Risk assessment
Sean Doherty (IST)	Systems management and data integrity, privacy and intellectual property
Kevin Du (ECS)	Information and Network security
Diana Gant (IST)	Information sharing and social and organizational issues
Abby Goodrum (IST)	Terrorism and civil disobedience; Ethics of hacktivism
Jongwoo Han (Maxwell)	Impact of IT on Governance; Electronic government; Internet and Social Capital, Electronic Intrusion and Trust, Policy Evaluation
Junseok Hwang (IST)	Digital convergence technology, Middleware networks, Information and system resource management, P2P computing, and Network economics and policy
Kamal Jabbour (ECS)	Computer networks and Computer architecture
Michelle Kaarst-Brown (IST)	Strategic risk assessment

Faculty Member	Research Interest
Elizabeth Liddy (IST)	Natural language processing
Patricia Longstaff (Newhouse)	Interdisciplinary research (using systems theory and other nontraditional approaches) in business and public policy issues affecting the communications industry and other networked industries
Nazanin Mansouri (ECS)	VLSI design and CAD, High-level synthesis, Logic synthesis, Formal methods, Reconfigurable computing, and Rapid prototyping
Roman Markowski (ECS)	Computer network design, Network security, and E-commerce infrastructures
Lee McKnight (IST)	Information and communication policy
Dave Molta (IST)	Wireless network security
Peter Morrissey (IST)	Information technology and information systems
Milton Mueller (IST)	Digital convergence, telecommunications and information policy
Susan Older (ECS)	Semantics of concurrency and mobility, Logics of programs, Security, and Formal methods
Lisa Osadciw (ECS)	Spread spectrum signal design, Wireless communications, and Multi-sensor fusion processing
Joon Park (IST)	Information and systems security, and survivability
Len Popyack (ECS)	Watermarking, Steganography, Information attack detection, and Information security system architectures
Jim Royer (ECS)	Computational complexity theory, Computational learning theory, and Biological computing
Jeffrey Stanton (IST)	Behavioral information security
Stuart Thorson (Maxwell)	Impact of information and communications technologies on public governance; E-governance and issues of privacy and security
Pramod Varshney (ECS)	Distributed sensor networks and data fusion, detection and estimation theory, wireless communications, and parallel algorithms

Faculty by Major Research Area

Major Research Area	Participating SAI Faculty
Systems Security Policy and Procedures	Longstaff, Deppa
Secure data communications technology including authentication and cryptography	Chin, Older, Du, Jabbour, Markowski, Park
Computer forensics and intrusion detection	Chapin, Liddy, Mansouri, Popyack
Reliability of computer and data applications, middleware, operating systems, control systems, and communications infrastructure	Blair, Chapin, Chin, Hwang, Jabbour, Mansouri, Markowski, Morrissey, Older, Park
Privacy, confidentiality, access, and integrity	Berteau, Bernard, Chapin, Chin, Crowston, Doherty, Gant, Goodrum, Han, Liddy, Longstaff, McKnight, Du, Mueller, Older, Park, Stanton, Thorson
Network security architecture including tools for security administration and analysis	Bernard, Doherty, Du, Hwang, Jabbour, Mansouri, Markowski, Molta, Varshney
Emerging threats	Berteau, Bonham, Crowston, Gant, Han, Kaarst-Brown, Longstaff, McKnight, Mueller, Stanton, Thorson
Vulnerability assessment and techniques for quantifying risk	Blair, Chapin, Chin, Deppa, Goodrum, Kaarst-Brown, Longstaff, Park, Thorson, Han
Remote access and wireless security	Du, Molta, Osadciw, Park, Varshney
Enhancement of law enforcement ability to detect, investigate, and prosecute cybercrimes including piracy of intellectual property	Bonham, Gant, Goodrum, Hwang, Popyack