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Keywords
Thin-film magnetic device design, fabrication, and testing; magnetic disk and tape recording
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Keywords
Computer security, access control, program monitoring, security automata, policy specification
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**Keywords**

Coding and signal processing for data storage, biometrics, pattern recognition

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**Keywords**

Distributed fault-tolerant computing and computer networks

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**Keywords**

Test and diagnosis of heterogeneous, integrated systems

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**Keywords**

Formal hardware and software verification
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**Keywords**

- CAD and design of analog signal processing circuits and MEMS systems
- Optics, Neural Interfaces, Photonic Integrated Circuits, Plasmonics, Sensing
- Multimedia coding and streaming, computer vision, pattern recognition, computer graphics, multimodal biometrics
- Hyper-redundant mechanisms, coverage, car-painting, de-mining, mobile robots, motion planning, hybrid controls
Christin, Nicolas  Associate Research Professor – EPP; Assistant Research Professor – CyLab; Courtesy Professor – ECE

Keywords

Computer security, network security, online crime, security economics, usable security, algorithmic applications of game theory

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Condeessa, Filipe  Post Doctoral Research Associate – ECE

Conley, Kelley  Research Administrator – ECE

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Cranor, Lorrie F.  Professor – ISR, EPP; Courtesy Professor – ECE

Keywords

Usable privacy and security

Datta, Anupam  Professor – ECE; Associate Professor – CyLab

Davis, Robert  John and Claire Bertucci Distinguished Professor – MSE; Courtesy Professor – ECE

Decker, Dave  Manager of Web Development Services – ECE

De La Torre Frade, Fernando  Courtesy Professor – ECE; Research Scientist – RI

Dey, Anind K.  Associate Professor – HCII; Courtesy Professor – ECE

Dolan, John  Courtesy Professor – ECE; Senior Systems Scientist – RI

Cranor, Lorrie F.  Professor – ISR, EPP; Courtesy Professor – ECE

Keywords

Usable privacy and security

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Keywords

Usable privacy and security
Keywords

mobile and space robotics, human-robot interaction, mechatronics, automated manufacturing

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Keywords

Databases, data mining, multimedia indexing, performance evaluation

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Keywords

Computer architecture, memory systems, multiprocessor architecture, architectural support for gigascale integration, design evaluation tools
Keywords

Microelectromechanical systems (MEMS), RF MEMS, inertial/bio/chemical sensors, MEMS CAD, micro-robotics

Feenstra, Randy 
Professor – Physics; Courtesy Professor – ECE

Keywords

Molecular beam epitaxy, scanning tunneling microscopy

Ferris, Sherri
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Fox, Toni
Sponsored Research Assistant – CyLab

Franchetti, Franz
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Keywords

Automatic performance tuning; automatic software libraries generation; code generation for multicore CPUs, high-performance systems (HPC), GPUs, FPGA-acceleration; logic-in-memory and 3DIC systems; domain-specific languages and compilers

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Keywords

Security, privacy, formal methods, and programming languages.

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**Keywords**

cloud computing, storage/file systems, operating systems, distributed systems

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**Keywords**

Computer architecture, operating systems, file systems, disk arrays

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**Keywords**

Systems Nanotechnology, Programmable Matter, Reconfigurable Computing, Parallel Computing, Compilers, Architecture

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Keywords
Semiconductor device physics and semiconductor process technology, sensors

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Keywords
Scheduling of computer systems, workload characterization, heavy-tailed distributions

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Keywords
Tribology, nanomanufacturing, multi-scale particle flows

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Keywords

Electromagnetics, electromechanics, electrohydrodynamics, microfluidics

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Keywords

Computer architecture, high-level hardware description and synthesis

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Keywords

Haptics, microassembly, dynamically stable mobile robots

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Keywords

power systems, optimization, control, energy networks, decomposition

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Keywords

Mobile and embedded computing, scalable systems, sensor networks, emergency communications systems

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Keywords

Large-scale systems modeling and simulation; power systems control and pricing algorithms; critical infrastructures/interdependencies

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Keywords

Language-based security, programming languages, logic and program verification.

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Keywords

Network economics and pricing, cloud computing, mobile/edge computing

Johnson, Aaron  Courtesy Professor – ECE, RI; Assistant Professor – MechE

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Keywords

Robotics, Innovation, and Software Engineering, focusing on Technological Change and Technology Transfer

Joshi, Gauri  Assistant Professor – ECE

Keywords

performance analysis, cloud computing, machine learning

Kainerstorfer, Jana  Courtesy Professor – ECE
Kanade, Takeo  U.A. and Helen Whitaker Professor – CS, RI; Courtesy Professor – ECE

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Keywords

Computer vision, autonomous systems, medical robotics

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Keywords

Distributed Information Processing, Multi-Agent Decision Making, Adaptive Stochastic Systems

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Keywords

agent-based design and control, S/W engineering for real-time systems, distributed robotics, distributed information systems, Secure Embedded Software/Systems, Sensor Networks

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Keywords

Advanced switch and network architectures, fault-tolerant network architectures, network management and control

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Keywords
distributed embedded systems, survivable system architecture, dependability

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Keywords
Signal processing, biomedical, wavelets, frames, multiresolution, communications

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Keywords
Synthesis and verification of embedded control software, distributed control strategies, distributed supervisory control, information and control in wireless sensor networks, discrete event and hybrid dynamic systems

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Keywords
Magnetic recording, optical recording and ferroelectric materials

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Keywords

Physical and chemical sensors, transducers, MEMS, magnetism, materials, thin films, data storage and RF devices

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Keywords

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Integrated circuits, computer-aided design

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Keywords

Digital circuit design, computer architecture, memory design, reconfigurable computing

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Keywords

Computer-aided design and manufacturing of VLSICs

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Keywords

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Keywords

Computer dependability and security; information warfare; intrusion detection; system diagnosis

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Keywords
Communications, statistical signal/image, video, and multimedia processing, wavelet transforms
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Keywords

Computer architecture, compilers, operating systems, parallel processing
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Keywords

Analog/RF/MEMS/biofluidic microsystem design
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Keywords

Computer architecture, hardware/software interaction, operating systems, fault tolerance

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Keywords

Digital Design, Embedded Systems, Networks
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Keywords

fault tolerance, distributed systems, embedded systems, mobile systems
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Keywords

computational sensors, computer graphics, computer vision, image processing, optics
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Keywords

Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory
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Fast computing, algorithms, applied mathematics, and signal processing (theory, software, hardware)

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Keywords
Analog, Mixed-signal and RF/millimeter-wave Integrated Circuit Design, Digitally-assisted analog/RD IC design

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Keywords

Telecommunications, wireless networks, internet, spectrum management, communications for homeland security, electronic commerce, developing countries, universal service, security

Audio Visual & Distance Communications Manager – ECE

Adjunct Professor – ECE; Professor – EPP, CS; Technical Director – CyLab

Information and systems security, focusing on network security (internet, mobile computing, and sensor networks) as well as on trusted computing.

Finance and Business Associate – ECE

Professor – ECE; Director – Nanofab

MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS

Design, implementation and modeling of electronic integrated systems

Professional Writer – ECE; Professional Assistant – ECE
**Platzer, Andre** Assistant Professor – CSD; Associate Professor – ECE  
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**Keywords**

Verification of embedded control systems, hybrid dynamical systems, cyber-physical systems, distributed hybrid systems, logic and formal methods

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**Keywords**

Embedded and real-time systems

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**Keywords**

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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Keywords
Electronic circuits, systems design automation
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Keywords
Embedded systems, distributed systems, sensor networks
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Keywords
VLSI CAD, algorithms, analog and digital circuits, automatic speech recognition
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Keywords
Biometric identification, Cyber-Physical Security, Authentication, Pattern recognition
Schlesinger, T.E. (Ed) Adjunct Professor – ECE ed@ece.cmu.edu

Keywords
Semiconductor devices, information storage, optoelectronic systems
Schneider, Jeff Research Professor – RI; Courtesy Professor – ECE jeff4@andrew.cmu.edu
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Keywords

Networking, Security, Systems, Software-defined networking, Internet-of-Things security

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Keywords

Network protocols, applications, distributed systems, mobile computing, wireless networks

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Keywords

Modern superscalar processor design, instruction-level parallelism and code scheduling

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Keywords

Computer architecture, reliability, context aware mobile computing

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Keywords

Networked embedded control systems, sensors/actuators networks, control theory

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Keywords

Telecommunications policy and economics

Sitti, Metin Professor – MechE, RI; Courtesy Professor – ECE; Affiliated Faculty – DSSC  
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Keywords

Micro/nano-robotics, biologically inspired systems, nanotechnology, MEMS/NEMS

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Keywords

Mobile computing, computer architecture, system design methods, wearable computers

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Keywords

Wireless communications, nanophotonics, spin wave devices

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Keywords

Computer networks, distributed systems, pervasive computing

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Keywords

Automatic speech recognition, auditory perception, signal processing

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Keywords

Statistically based CAD/CAM of VLSI circuits

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Keywords

Audio signal processing, music and sound recording applications

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Keywords

Network security; Wireless networking

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Keywords

Autonomous agents, distributed control, power systems, cascading failures

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Keywords

Computer-aided design of single chip heterogeneous multiprocessing systems

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Optical networks, wireless networks and communications systems, and high-speed networking

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Keywords

Photonics, optical networks, biophotonics, sensors, quantum phenomena in optical materials.

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Keywords
Nanoelectronics, Heterogeneous Integration, RF and Analog Integrated Circuits, Biomedical Electronics, Carbon Nanotubes, Graphene

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Keywords
Magnetic nanotechnology

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Keywords
Wireless communications, network science, security, social networks, cyber-physical networks

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Keywords

Neural signal processing, machine learning approaches in neuroscience, neural prosthetic systems

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Keywords

Multi-core processors, Network-on-chip, Digital VLSI

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Keywords

Computer networks, internet, resource management, multimedia

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Keywords

Sensor Networks, Embedded Systems

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Keywords

Micromagnetics, magnetoelectronic devices, magnetic recording

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