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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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Carley, Rick
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Keywords
CAD and design of analog signal processing circuits and MEMS systems

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Keywords
Optics, Neural Interfaces, Photonic Integrated Circuits, Plasmonics, Sensing

Chase, Steven
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Keywords
Multimedia coding and streaming, computer vision, pattern recognition, computer graphics, multimodal biometrics

Chen, Xiaoming
Visiting Research Scholar – ECE

Keywords
Hyper-redundant mechanisms, coverage, car-painting, de-mining, mobile robots, motion planning, hybrid controls

Chraska, Jacqueline
Administrative Coordinator – ECE

Keywords

Chrost, Howie
Professor – RI; Courtesy Professor – ECE

Christin, Nicolas
Assistant Research Professor – CyLab, ECE

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

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Hardware and software verification, automatic theorem proving, symbolic computation

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Usable privacy and security

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

Echko, Michelle Finance and Business Associate – ECE
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Elgersma, Steve Senior Systems & Software Engineer – ECE
Erdogmus, Hakan Associate Teaching Professor – ECE

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Faloutsos, Christos Professor – CS; Courtesy Professor – ECE

Keywords
Databases, data mining, multimedia indexing, performance evaluation

Falsafi, Babak Adjunct Professor – ECE, CS

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

Fassinger, Dan P. IT Manager – ECE
Fatahalian, Kayvon Courtesy Professor – ECE; Assistant Professor – CS
Fedder, Gary Howard M. Wilkoff Professor – ECE, RI; Co-

F
Keywords

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

Feenstra, Randy Professor – Physics; Courtesy Professor – ECE
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Keywords

Molecular beam epitaxy, scanning tunneling microscopy

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Keywords

Automatic performance tuning, digital signal processing transforms, advanced architectures

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Keywords

Security, privacy, formal methods, and programming languages.

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Keywords

Wireless systems, multimedia compression, signal processing/compression
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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
Research in wireless technology and telecommunications policy

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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

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

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Jia, Limin  Assistant Research  
Professor – CyLab, INI, ECE  

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

Jordan, Angel  Emeritus University  
Professor – ECE, RI  

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

Kanade, Takeo  U.A. and Helen  
Whitaker Professor – CS, RI; Courtesy  
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Keywords  
Computer vision, autonomous systems,  
medical robotics  

Kar, Soummya  Assistant Research  
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Keywords  
Distributed Information Processing,  
Multi-Agent Decision Making, Adaptive  
Stochastic Systems  

Kareis, Tomissa  Research  
Administrator – ECE  

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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

Magnetic materials, material science, electron microscopy, x-ray diffraction

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Keywords
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
Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.
Keywords

VLSI/computer architecture, energy aware computing, CAD for integrated systems

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Keywords

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

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Keywords

Technology and policy including climate change and electric power

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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

Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory

**Noh, Hae Young** Assistant Professor – CEE; Courtesy Professor – ECE

**O'Hallaron, David** Professor – CS, ECE; Director – Intel Research Pittsburgh

Keywords

Scientific computing, parallel computing, computational database systems, and virtualization

**Ozdoganlar, O. Burak** Affiliated Faculty – DSSC; Associate Professor – MechE

**Ozdoganlar, Neslihan** M.S. Academic Program Advisor – ECE

**Péraire, Cécile** Assistant Teaching Professor – ECE

**Püschel, Markus** Adjunct Professor – ECE

Keywords

Fast computing, algorithms, applied mathematics, and signal processing (theory, software, hardware)

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**Palko, Adam P.** Finance and Research Administrator – ECE

**Paramesh, Jeyanandh** Associate Professor – ECE

Keywords

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

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Keywords
Telecommunications, wireless networks, internet, spectrum management, communications for homeland security, electronic commerce, developing countries, universal service, security
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Keywords
Information and systems security, focusing on network security (internet, mobile computing, and sensor networks) as well as on trusted computing.
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Keywords
MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS
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Keywords
Design, implementation and modeling of electronic integrated systems
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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**  
Human/robot interaction, mobile robotics

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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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Computer architecture, reliability, context aware mobile computing
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Networked embedded control systems, sensors/actuators networks, control theory
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Keywords
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Keywords

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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

Automatic speech recognition, auditory perception, signal processing

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Keywords

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

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