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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

Bianchini, Ronald Adjunct Professor – ECE

Keywords

Distributed fault-tolerant computing and computer networks

Bishop, Cathy Instructor – ECE

Blanton, Shawn Professor – ECE; Associate Director – JIE

Keywords

Test and diagnosis of heterogeneous, integrated systems

Bollapragada, Vara Post Doctoral Research Associate – ECE

Boni, Dante Equipment Technician – Nanofab

Bosle, Kevin Senior Buyer – ECE

Brown, Timothy X Distinguished Service Professor – ECE, EPP

Brumley, David J. Associate Professor – CS; Director – CyLab; Professor – ECE

Bryant, Randal Professor – CS; Courtesy Professor – ECE

Keywords

Formal hardware and software verification

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Carley, Kathleen Professor – ISR; Courtesy Professor – ECE

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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

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Keywords

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

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Keywords

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

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Keywords

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

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Keywords  
Hardware and software verification, automatic theorem proving, symbolic computation  

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Keywords  
Usable privacy and security  

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Keywords

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

Du, Jian Post Doctoral Research Associate – ECE

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Erdogmus, Hakan Associate Teaching Professor – ECE

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

Fanti, Giulia Adjunct Faculty – ECE

Fassinger, Dan P. IT Manager – ECE

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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 Administrative Coordinator – ECE

Fox, Toni Sponsored Research Assistant – CyLab

Franchetti, Franz Associate Professor – ECE; Faculty Director of ITS – ECE

Keywords

Automatic performance tuning, digital signal processing transforms, advanced architectures

Fredrikson, Matt Assistant Professor – ISR, CS; Courtesy Professor – ECE

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
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
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

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

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Keywords
performance analysis, cloud computing, machine learning

K

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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

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.

Marculescu, Diana
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Keywords

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

Maxion, Roy
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Keywords

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

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Morgan, Granger
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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

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

Narasimhan, Priya  
Professor – ECE

Keywords

fault tolerance, distributed systems, embedded systems, mobile systems

Negi, Rohit  
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Keywords

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

Nguyen, Kimmy  
Event and Project Coordinator – ECE

Keywords

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

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

Keywords

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

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

Keywords

Péraire, Cécile  
Assistant Teaching Professor – ECE

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**Keywords**

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

**Pagliarini, Samuel** Research Scientist – ECE

**Keywords**

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

**Parno, Bryan** Associate Professor – ECE

**Pasareanu, Corina** Senior Research Scientist – ECE-SV

**Patterson, Carolyn** Administrative Coordinator – ECE

**Patton, Ashley** Director of Engagement and Annual Giving – ECE

**Pavlo, Andy** Courtesy Professor – ECE

**Peha, Jon** Professor – EPP; Courtesy Professor – ECE

**Keywords**

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

**Perrig, Adrian** Adjunct Professor – ECE; Professor – EPP, CS; Technical Director – CyLab

**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

Pileggi, Larry Tanoto Professor – ECE (412)-268-6774 pileggi@ece.cmu.edu

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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Biometric identification, Cyber-Physical Security, Authentication, Pattern recognition

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Semiconductor devices, information storage, optoelectronic systems

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

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

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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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Keywords
Networked embedded control systems, sensors/actuators networks, control theory
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Keywords
Telecommunications policy and economics
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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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Thomas, Donald Professor Emeritus – ECE

Keywords

Computer-aided design of single chip heterogeneous multiprocessing systems

Tims, Joshua Systems Administrator – ECE
Tomko, Jessica Admissions Coordinator – ECE
Tonguz, Ozan Professor – ECE

Keywords

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

Towe, Elias Professor – ECE; Albert and Ethel Grobstein Memorial Professor – MSE; Director – CNXT

Keywords

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

Treuille, Adrien Courtesy Professor – ECE; Assistant Professor – CS

Ustun, Taha Selim Assistant Teaching Professor – ECE

Keywords

Power Systems Protection, Communication in Power Networks, Distributed Generation, Microgrids and Smartgrids

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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

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

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Keywords

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

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Keywords

Sensor Networks, Embedded Systems

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Keywords

Computer networks, internet, resource management, multimedia

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Keywords

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