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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
Berger, Luc Professor Emeritus – Physics; Affiliated Faculty – DSSC

Bhagavatula, Vijayakumar U.A. and Helen Whitaker Professor – ECE; Affiliated Faculty – DSSC; Associate Dean of Faculty and Graduate Affairs – CIT

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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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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<th>Name</th>
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<tbody>
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**Keywords**

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

**Keywords**

Molecular beam epitaxy, scanning tunneling microscopy

**Keywords**

Automatic performance tuning, digital signal processing transforms, advanced architectures
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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**

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Keywords

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

Joe-Wong, Carlee Assistant Professor – ECE

Jordan, Angel Emeritus University Professor – ECE, RI

Joshi, Gauri Adjunct Faculty – ECE

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Joshi, Gauri Adjunct Faculty – ECE

Keywords

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

Joshi, Gauri Adjunct Faculty – ECE

Keywords

performance analysis, cloud computing, machine learning

Kar, Soummya Associate Research 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

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Keywords

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

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distributed embedded systems, survivable system architecture, dependability

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

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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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<tr>
<td>Keywords</td>
<td>Magnetic materials, material science, electron microscopy, x-ray diffraction</td>
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<td>Keywords</td>
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<tr>
<td>Keywords</td>
<td>Digital circuit design, computer architecture, memory design, reconfigurable computing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Majetich, Sara A.</td>
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Keywords

Computer-aided design and manufacturing of VLSICs

Marculescu, Radu Professor – ECE (412)-268-8710

Keywords

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

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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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**Morgan, Granger** Professor – ECE; Lord Professor – EPP

**Keywords**

Technology and policy including climate change and electric power

**Morris, James** Professor – CS; Courtesy Professor – ECE

**Moura, José** Associate Department Head - Research & Strategic Initiatives – ECE; Philip L. and Marsha Dowd University Professor – ECE, BME; Affiliated Faculty – DSSC

**Keywords**

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

**Moutis, Panayiotis** Post Doctoral Research Associate – ECE

**Mowry, Todd** Professor – CS; Courtesy Professor – ECE; Co-Director – CALCM

**Keywords**

Computer architecture, compilers, operating systems, parallel processing

**Moya, Linda** Assistant Teaching Professor – ECE, SDS

**Mukherjee, Tamal** Professor – ECE

**Keywords**

Analog/RF/MEMS/biofluidic microsystem design

**Mutlu, Onur** Adjunct Professor – ECE

---
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

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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

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Keywords

Scientific computing, parallel computing, computational database systems, and virtualization
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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/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
Ramakrishnan, Bhiksha Raj  Courtesy Professor – ECE; Associate Professor – LTI
Reddy, Raj  Courtesy Professor – ECE; Mozah Bint Nasser University Professor – CS
Reyes, Brittany  Academic Services and Student Organizations Coordinator – ECE
Ricketts, David  Adjunct Professor – ECE

Keywords
Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits
Risley, Mason  Process Engineer – Nanofab
Rohrer, Ronald A.  Professor Emeritus – ECE

Keywords
Electronic circuits, systems design automation
Rosvanis, James  Nanofab Technician – Nanofab
Rowe, Anthony  Associate Professor – ECE

Keywords
Embedded systems, distributed systems, sensor networks
Rutenbar, Rob A.  Adjunct Professor – ECE

Keywords
VLSI CAD, algorithms, analog and digital circuits, automatic speech recognition
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Keywords
Biometric identification, Cyber-Physical Security, Authentication, Pattern recognition

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Keywords
Semiconductor devices, information storage, optoelectronic systems

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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

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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

Computer networks, distributed systems, pervasive computing

Automatic speech recognition, auditory perception, signal processing

Statistically based CAD/CAM of VLSI circuits

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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Keywords

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**

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

Specification, verification, reliability, security, distributed systems, software engineering, programming languages

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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**

Micromagnetics, magnetoelectronic devices, magnetic recording

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