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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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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

Bintrim, Grace  Administrative Coordinator – ECE

Bishop, Cathy  Instructor – ECE

Blanton, Shawn  Professor – ECE

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 – EPP, ECE

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

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
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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Keywords

Usable privacy and security

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Keywords

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

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Keywords

Databases, data mining, multimedia indexing, performance evaluation

**Faloutsos, Christos** Professor – CS; Courtesy Professor – ECE
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Keywords

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

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Keywords

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

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Keywords

Molecular beam epitaxy, scanning tunneling microscopy

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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

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

**Garba, Aminata** Assistant Teaching Professor – ECE

**Geiger, Kristen** Senior Research Administrator – ECE

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**Ghose, Saugata** Systems Scientist – ECE

**Gibbons, Phil** Professor – ECE

**Gibson, Garth** Professor – CS; Courtesy Professor – ECE; Affiliated Faculty – DSSC

Keywords

Computer architecture, operating systems, file systems, disk arrays

**Gligor, Virgil** Professor – ECE; Co-Director – CyLab

**Goldstein, Seth** Associate Professor – CSD; Courtesy Professor – ECE

Keywords

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

**Gottron, Norman** Process Engineer – Nanofab

**Greenfield, Anissa** Manager, Sponsored Research Administration – ECE

**Greve, David** Professor Emeritus – ECE

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

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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  
VLSI/computer architecture, energy aware computing, CAD for integrated systems  
  
Marculescu, Radu  Professor – ECE  
  
Keywords  
Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.  
  
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Maxion, Roy  Research Professor – CS; Courtesy Professor – ECE  
  
Keywords  
Computer dependability and security; information warfare; intrusion detection; system diagnosis  
  
McCarthy, Jillian  M.S. Academic Program Advisor – ECE  
  
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**Keywords**

Technology and policy including climate change and electric power

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

Computer architecture, compilers, operating systems, parallel processing

Analog/RF/MEMS/biofluidic microsystem design
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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Keywords

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

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.

Phelps, Shelley  Finance and Business Associate – ECE

Keywords

Phelps, Shelley  Finance and Business Associate – ECE

Piazza, Gianluca (Gian)  Professor – ECE; Director – Nanofab

Keywords

Piazza, Gianluca (Gian)  Professor – ECE; Director – Nanofab

Pileggi, Larry  Tanoto Professor – ECE

Keywords

Pileggi, Larry  Tanoto Professor – ECE

Pileggi, Leah  Professional Writer – ECE; Professional Assistant – ECE

Keywords

Pileggi, Leah  Professional Writer – ECE; Professional Assistant – ECE

Platzer, Andre  Assistant Professor – CS, ECE

Keywords

Platzer, Andre  Assistant Professor – CS, ECE

Popli, Nipun  Post Doctoral Research Associate – ECE

Keywords

Popli, Nipun  Post Doctoral Research Associate – ECE

Prelich-Knight, Lyz  Academic Services Coordinator – ECE

Keywords

Racko, Angela  Finance and Business Associate – ECE

Keywords
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Keywords
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Keywords
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Keywords
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