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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  
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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  
Burns, Krista  Communications Manager – ECE  

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

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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

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

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

Tribology, nanomanufacturing, multi-scale particle flows  

Research in wireless technology and telecommunications policy  

Electromagnetics, electromechanics, electrohydrodynamics, microfluidics  

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

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

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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

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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Integrated circuits, computer-aided design

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**Keywords**

Integrated circuits, computer-aided design

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

Computer-aided design and manufacturing of VLSICs

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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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

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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

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Keywords

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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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Embedded and real-time systems

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Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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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
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

Serafin, Stephen Senior Systems Engineer – ECE

Seshan, Srinivasan Associate Professor – CS; Courtesy Professor – ECE

Keywords

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

Shen, John Professor – ECE

Keywords

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

Siewiorek, Daniel Buhl University Professor – ECE, CS; Director – HCII

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

Wireless communications, nanophotonics, spin wave devices

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Keywords

Computer networks, distributed systems, pervasive computing

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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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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

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Keywords

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

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