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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

Bosle, Kevin Senior Buyer – ECE

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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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Keywords

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

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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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Keywords

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

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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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Semiconductor device physics and semiconductor process technology, sensors

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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
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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agent-based design and control, S/W engineering for real-time systems, distributed robotics, distributed information systems, Secure Embedded Software/Systems, Sensor Networks

**Keywords**

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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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Integrated circuits, computer-aided design

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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.
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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

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
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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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
Keywords

Verification of embedded control systems, hybrid dynamical systems, cyber-physical systems, distributed hybrid systems, logic and formal methods

Keywords

Embedded and real-time systems

Keywords

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

Keywords

Electronic circuits, systems design automation
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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

Keywords

Semiconductor devices, information storage, optoelectronic systems

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Keywords

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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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Keywords

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Keywords

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Keywords

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Keywords

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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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Keywords

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Keywords

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