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**Keywords**

Thin-film magnetic device design, fabrication, and testing; magnetic disk and tape recording

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Keywords

Coding and signal processing for data storage, biometrics, pattern recognition

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Bianchini, Ronald Adjunct Professor – ECE

Keywords

Distributed fault-tolerant computing and computer networks

Blanton, Shawn Professor – ECE; Associate Director – JIE

Keywords

Test and diagnosis of heterogeneous, integrated systems

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Bosle, Kevin Senior Buyer – ECE

Keywords

Distributed fault-tolerant computing and computer networks

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Brumley, David J. Associate Professor – CS, ECE

Keywords

Formal hardware and software verification

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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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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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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
Computer architecture, operating systems, file systems, disk arrays

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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
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
Design and control optimization, machine learning, electric vehicles, smart grid, and renewable energy 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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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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Computer-aided design and manufacturing of VLSICs

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Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.
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VLSI/computer architecture, energy aware computing, CAD for integrated systems

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Keywords

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Keywords

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

Keywords

Computer architecture, compilers, operating systems, parallel processing

Keywords

Analog/RF/MEMS/biofluidic microsystem design

Keywords

Computer architecture, hardware/software interaction, operating systems, fault tolerance

N

Keywords

Digital Design, Embedded Systems, Networks

Keywords

fault tolerance, distributed systems, embedded systems, mobile systems
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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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MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS

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**Keywords**

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

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VLSI CAD, algorithms, analog and digital circuits, automatic speech recognition

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Telecommunications policy and economics

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