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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

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

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

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; 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

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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

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**Keywords**
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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Keywords

Semiconductor device physics and semiconductor process technology, sensors

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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

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

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

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Keywords

Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical 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
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
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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Püschel, Markus Adjunct Professor – ECE

Keywords
Fast computing, algorithms, applied mathematics, and signal processing (theory, software, hardware)

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Paramesh, Jeyanandh Associate Professor – ECE

Keywords
Analog, Mixed-signal and RF/millimeter-wave Integrated Circuit Design, Digitally-assisted analog/RF IC design

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Pasareanu, Corina Senior Research Scientist – ECE-SV
Keywords

Telecommunications, wireless networks, internet, spectrum management, communications for homeland security, electronic commerce, developing countries, universal service, security

Keywords

Information and systems security, focusing on network security (internet, mobile computing, and sensor networks) as well as on trusted computing.

Keywords

MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS

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

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Keywords

Embedded and real-time systems

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Keywords

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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Keywords

Electronic circuits, systems design automation

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Keywords

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

**Keywords**

Networking, Security, Systems, Software-defined networking, Internet-of-Things security

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**Keywords**

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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

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Keywords

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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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Audio signal processing, music and sound recording applications
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Keywords

Computer-aided design of single chip heterogeneous multiprocessing systems

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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
Magnetic nanotechnology

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Keywords
Wireless communications, network science, security, social networks, cyber-physical networks

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

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Keywords
Multi-core processors, Network-on-chip, Digital VLSI

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Sensor Networks, Embedded Systems

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