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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

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**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

Databases, data mining, multimedia indexing, performance evaluation

Falsafi, Babak Adjunct Professor – ECE, CS

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

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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

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

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

Joshi, Gauri  Assistant Professor – ECE

Keywords
performance analysis, cloud computing, machine learning

Kainerstorfer, Jana  Courtesy Professor – ECE
Kanade, Takeo  U.A. and Helen Whitaker Professor – CS, RI; Courtesy Professor – ECE

Keywords

K

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Keywords

K

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Keywords

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Keywords

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

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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

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
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
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

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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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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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Keywords

Embedded and real-time systems

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**Rengarajan, Vijay** Post Doctoral Research Associate – ECE

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**Ricketts, David** Adjunct Professor – ECE

Keywords

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

**Risley, Mason** Process Engineer – Nanofab

**Rohrer, Ronald A.** Professor Emeritus – ECE

**Ricketts, David** Adjunct Professor – ECE

Keywords

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

**Risley, Mason** Process Engineer – Nanofab

**Rohrer, Ronald A.** Professor Emeritus – ECE
Keywords

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

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

Mobile computing, computer architecture, system design methods, wearable computers

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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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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

Computer-aided design of single chip heterogeneous multiprocessing systems

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Keywords

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Keywords

Photonics, optical networks, biophotonics, sensors, quantum phenomena in optical materials.

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

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Keywords

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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Keywords

Computer networks, internet, resource management, multimedia

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Keywords

Sensor Networks, Embedded Systems

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Micromagnetics, magnetoelectronic devices, magnetic recording

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