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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

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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**

Hardware and software verification, automatic theorem proving, symbolic computation

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**Keywords**

Usable privacy and security

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**Fassinger, Dan P.** IT Manager – ECE

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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**

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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

Keywords
Computer architecture, operating systems, file systems, disk arrays

Keywords
Systems Nanotechnology, Programmable Matter, Reconfigurable Computing, Parallel Computing, Compilers, Architecture
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. 

Joe-Wong, Carlee  Assistant  Professor – ECE  

Keywords  
Network economics and pricing, cloud computing, mobile/edge computing  

Johnson, Aaron  Courtesy  Professor – ECE, RI; Assistant Professor – MechE  
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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  

K  
Kainerstorfer, Jana  Courtesy  Professor – ECE  
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Keywords
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

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

Integrated circuits, computer-aided design

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

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

Biometric identification, Cyber-Physical Security, Authentication, Pattern recognition

Semiconductor devices, information storage, optoelectronic systems

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

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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Computer architecture, reliability, context aware mobile computing

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Networked embedded control systems, sensors/actuators networks, control theory

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Keywords
Telecommunications policy and economics

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Micro/nano-robotics, biologically inspired systems, nanotechnology, MEMS/NEMS

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

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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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Network security; Wireless networking
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Keywords
Autonomous agents, distributed control, power systems, cascading failures
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Computer-aided design of single chip heterogeneous multiprocessing systems
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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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Keywords

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

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Computer networks, internet, resource management, multimedia

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Sensor Networks, Embedded Systems

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