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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

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

Brown, Timothy X Distinguished Service Professor – EPP, ECE

Brumley, David J. Associate Professor – CSD; Director – CyLab; Professor – ECE

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

Chung, Pil Seung Post Doctoral Research Associate – ChemE, DSSC

Keywords

Usable privacy and security

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Cowan, Christina Director of Administrative Services & Office of the Department Head – ECE

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Keywords

Usable privacy and security

Datta, Anupam Professor – ECE; Associate Professor – CyLab

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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

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
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
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Keywords
performance analysis, cloud computing, machine learning
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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  
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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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
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

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

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

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

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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

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Keywords

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

Shah, Nihar Assistant Professor – MLD, CSD; Courtesy Professor – ECE

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

Network security; Wireless networking

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Keywords

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

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