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**Keywords**

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

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**Bandola, Judy** Administrative Coordinator – ECE

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

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Keywords
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Keywords
Test and diagnosis of heterogeneous, integrated systems

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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

Chase, Steven Courtesy Professor – ECE
Chen, Tsuhan Adjunct Professor – ECE

Keywords
Multimedia coding and streaming, computer vision, pattern recognition, computer graphics, multimodal biometrics

Chen, Xiaoming Visiting Research Scholar – ECE

Keywords
Hyper-redundant mechanisms, coverage, car-painting, de-mining, mobile robots, motion planning, hybrid controls

Chaaska, Jacqueline Administrative Coordinator – ECE

Keywords

Christin, Nicolas Assistant Research Professor – CyLab, ECE
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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Usable privacy and security

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Keywords
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Keywords
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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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Keywords

Security, privacy, formal methods, and programming languages.

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cloud computing, storage/file systems, operating systems, distributed systems

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

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**Keywords**

Scheduling of computer systems, workload characterization, heavy-tailed distributions

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**Keywords**

Research in wireless technology and telecommunications policy

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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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Robotics, Innovation, and Software  
Engineering, focusing on Technological  
Change and Technology Transfer

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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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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

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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

Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.
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**Keywords**

VLSI/computer architecture, energy aware computing, CAD for integrated 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

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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

Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory

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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**

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**

Human/robot interaction, mobile robotics

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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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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

Wireless communications, nanophotonics, spin wave devices

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Keywords

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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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Computer-aided design of single chip heterogeneous multiprocessing systems

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

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

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Computer networks, internet, resource management, multimedia

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