<table>
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</table>

**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

Distributed fault-tolerant computing and computer networks

Test and diagnosis of heterogeneous, integrated systems

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
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Keywords
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Keywords

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Keywords

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

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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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Advanced switch and network architectures, fault-tolerant network architectures, network management and control

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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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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

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

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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

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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

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
Rutenbar, Rob A. Adjunct Professor – ECE rutenbar@ece.cmu.edu

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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Keywords

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

Serafin, Stephen  Senior Systems Engineer – ECE  

Seshan, Srinivasan  Associate Professor – CS; Courtesy Professor – ECE

Keywords

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

Shen, John  Professor – ECE

Keywords

Modern superscalar processor design, instruction-level parallelism and code scheduling

Siewiorek, Daniel  Buhl University Professor – ECE, CS; Director – HCII

Keywords

Computer architecture, reliability, context aware mobile computing

Sinopoli, Bruno  Associate Professor – ECE, RI, MechE

Keywords

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

Sirbu, Marvin  Professor – EPP; Courtesy Professor – ECE  

Keywords

Telecommunications policy and economics

Sitti, Metin  Professor – MechE, RI; Courtesy Professor – ECE; Affiliated Faculty – DSSC

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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 multiprocessor systems

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Keywords

Optical networks, wireless networks and communication systems, and high-speed networking

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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

Nanoelectronics, Heterogeneous Integration, RF and Analog Integrated Circuits, Biomedical Electronics, Carbon Nanotubes, Graphene

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Keywords

Magnetic nanotechnology

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Keywords

Specification, verification, reliability, security, distributed systems, software engineering, programming languages

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Keywords

Wireless communications, network science, security, social networks, cyber-physical networks
Erk Professor – ChemE; Courtesy Professor – ECE

Ye, Terry Associate Professor – JIE; Adjunct Professor – ECE

Yichye, Shahar Cleanroom Construction Protocol Manager – ECE

Yu, Zhiyi Adjunct Professor – ECE; Associate Professor – JIE

Keywords

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

Yu, Byron Associate Professor – ECE; Assistant Professor – BME

Keywords

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

Z

Zhang, Jun Assistant Professor – JIE; Visiting Professor – ECE

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Zhang, Pei Associate Research Professor – ECE

Keywords

Sensor Networks, Embedded Systems

Zhang, Hui Professor – CS; Courtesy Professor – ECE

Keywords

Computer networks, internet, resource management, multimedia

Zhu, Jimmy Co-Director – JIE; ABB Professor – ECE; Professor – MSE, Physics; Director – DSSC
Keywords

Micromagnetics, magnetoelectronic devices, magnetic recording

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