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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

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Keywords
Distributed fault-tolerant computing and computer networks

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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

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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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Keywords  
mobile and space robotics, human-robot interaction, mechatronics, automated manufacturing  

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Eckhardt, Dave  Courtesy  Professor – ECE; Assistant Teaching Professor – CS  
Elgersma, Steve  Senior Systems & Software Engineer – ECE  
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Faloutsos, Christos  Professor – CS; Courtesy Professor – ECE  
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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Fatahalian, Kayvon  Courtesy Professor – ECE; Assistant Professor – CS
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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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Keywords

Wireless systems, multimedia compression, signal processing/compression

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

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Computer architecture, operating systems, file systems, disk arrays

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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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<thead>
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</tr>
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</table>

**Keywords**

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

<table>
<thead>
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<th>Title/Department</th>
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</thead>
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</tbody>
</table>

**Keywords**

Tribology, nanomanufacturing, multi-scale particle flows

<table>
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<th>Title/Department</th>
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<tbody>
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</table>

**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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Language-based security, programming languages, logic and program verification.

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Keywords
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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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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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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Physical and chemical sensors, transducers, MEMS, magnetism, materials, thin films, data storage and RF devices

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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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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

Fast computing, algorithms, applied mathematics, and signal processing (theory, software, hardware)

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Professor – ECE paramesh@ece.cmu.edu

Keywords

Analog, Mixed-signal and RF/millimeter-wave Integrated Circuit Design, Digitally-assisted analog/RF IC design

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Peha, Jon Professor – EPP; Courtesy Professor – ECE (412)-268-7126 peha@ece.cmu.edu

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.
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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

Schlesinger, T.E. (Ed) Adjunct Professor – ECE

Keywords

Semiconductor devices, information storage, optoelectronic systems

Schneider, Jeff Research Professor – RI; Courtesy Professor – ECE

Scott, Stephanie Academic Program Advisor – ECE

Sekar, Vyas Assistant Professor – ECE

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
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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

Talukdar, Sarosh  Professor Emeritus – ECE  (412)-268-8778
Keywords

Autonomous agents, distributed control, power systems, cascading failures

Tang, Xiaoying Adjunct Professor – ECE; Assistant Professor – JIE
Thomas, Donald Professor Emeritus – ECE

Keywords

Computer-aided design of single chip heterogeneous multiprocessing systems

Tims, Joshua Systems Administrator – ECE

Tomko, Jessica Admissions Coordinator – ECE

Tonguz, Ozan Professor – ECE

Keywords

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

Towe, Elias Professor – ECE; Albert and Ethel Grobstein Memorial Professor – MSE; Director – CNXT

Keywords

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

Treuille, Adrien Courtesy Professor – ECE; Assistant Professor – CS

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Ustun, Taha Selim Assistant Teaching Professor – ECE

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

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Keywords
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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Keywords
Sensor Networks, Embedded Systems
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Keywords

Computer networks, internet, resource management, multimedia

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Keywords

Micromagnetics, magnetoelectronic devices, magnetic recording

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