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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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Elgersma, Steve Senior Systems & Software Engineer – ECE
Erdogmus, Hakan Associate Teaching Professor – ECE

Faloutsos, Christos Professor – CS; Courtesy Professor – ECE

Keywords
Databases, data mining, multimedia indexing, performance evaluation

Falsafi, Babak Adjunct Professor – ECE, CS

Keywords
Computer architecture, memory systems, multiprocessor architecture, architectural support for gigascale integration, design evaluation tools

Fanti, Giulia Assistant Professor – ECE
Fassinger, Dan P. IT Manager – ECE
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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
Hoe, James C., Professor – ECE, CS; Co-Director – CALCM  
Keywords  
Computer architecture, high-level hardware description and synthesis  
Hollis, Ralph L., Research Professor – RI; Courtesy Professor – ECE  
Keywords  
Haptics, microassembly, dynamically stable mobile robots  
Hong, Jason, Courtesy Professor – ECE; Associate Professor – CS  
Keywords  
power systems, optimization, control, energy networks, decomposition  
Iannucci, Bob, Director – CyLab Mobility Research Center; Distinguished Service Professor – ECE, Carnegie Mellon Silicon Valley  
Keywords  
Mobile and embedded computing, scalable systems, sensor networks, emergency communications systems  
Ilic, Jovan, Associate Teaching Professor – ECE  
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
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

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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Integrated circuits, computer-aided design

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Keywords

Digital circuit design, computer architecture, memory design, reconfigurable computing
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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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Mukherjee, Tamal  Professor – ECE  (412)-268-8522	
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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

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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

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

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

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Keywords

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

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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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Magnetic nanotechnology

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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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Keywords

Sensor Networks, Embedded Systems

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Keywords

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