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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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Dolan, John Courtesy Professor – ECE; Senior Systems Scientist – RI
Keywords
mobile and space robotics, human-robot interaction, mechatronics, automated manufacturing

Echko, Michelle Finance and Business Associate – ECE
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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

Fanti, Giulia Adjunct Faculty – 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, 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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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

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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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

Kim, Hyong Drew D. Perkins
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Keywords

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

Kim, Hoe Joon Post Doctoral Research Associate – ECE

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Knickerbocker, Kara Administrative Coordinator – ECE

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Koopman, Philip Associate Professor – ECE, CS

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

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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Mehdizadeh, Emad
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Mengshoel, Ole
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Miskov-Zivanov, Natasa
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Moneck, Matthew
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Morgan, Granger
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Maxion, Roy
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Miskov-Zivanov, Natasa
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Technology and policy including climate change and electric power

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Communications, statistical signal/image, video, and multimedia processing, wavelet transforms

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Computer architecture, compilers, operating systems, parallel processing

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Analog/RF/MEMS/biofluidic microsystem design

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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

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

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
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
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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

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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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Telecommunications policy and economics

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

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Keywords

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Keywords

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Keywords

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Keywords

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Keywords

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Keywords

Autonomous agents, distributed control, power systems, cascading failures

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Keywords

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Keywords
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Keywords
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Keywords
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