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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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Computer security, access control, program monitoring, security automata, policy specification

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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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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

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

Hills, Alex Distinguished Service Professor – EPP; Courtesy Professor – ECE

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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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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Large-scale systems modeling and simulation; power systems control and pricing algorithms; critical infrastructures/interdependencies

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distributed embedded systems, survivable system architecture, dependability

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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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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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Integrated circuits, computer-aided design

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

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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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fault tolerance, distributed systems, embedded systems, mobile systems

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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

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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

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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
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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

Mobile computing, computer architecture, system design methods, wearable computers

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Keynotes

Wireless communications, nanophotonics, spin wave devices

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

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Keywords

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

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Keywords

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Keywords

Wireless communications, network science, security, social networks, cyber-physical networks

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Keywords

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

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Keywords

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

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Computer networks, internet, resource management, multimedia

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Keywords

Sensor Networks, Embedded Systems

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Micromagnetics, magnetoelectronic devices, magnetic recording

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