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**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

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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
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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

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

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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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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
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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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Keywords

Scheduling of computer systems, workload characterization, heavy-tailed distributions
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Higgs III, Fred Professor – MechE; Courtesy Professor – ECE

Keywords

Tribology, nanomanufacturing, multi-scale particle flows
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Keywords

Research in wireless technology and telecommunications policy
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Hoburg, James Emeritus Faculty – ECE

Keywords

Electromagnetics, electromechanics, electrohydrodynamics, microfluidics

Hoburg, James Emeritus Faculty – ECE

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
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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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

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Keywords

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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

computational sensors, computer graphics, computer vision, image processing, optics

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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
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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
Keywords

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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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
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Keywords
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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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</table>

### 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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Magnetic nanotechnology

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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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Computer networks, internet, resource management, multimedia

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