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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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CAD and design of analog signal processing circuits and MEMS systems
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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**

Usable privacy and security

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Keywords  
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Keywords  
Databases, data mining, multimedia indexing, performance evaluation

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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
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

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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Keywords
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Keywords
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Keywords

Distributed Information Processing, Multi-Agent Decision Making, Adaptive Stochastic Systems

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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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Signal processing, biomedical, wavelets, frames, multiresolution, communications

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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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Keywords

Magnetic recording, optical recording and ferroelectric materials

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Integrated circuits, computer-aided design

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VLSI/computer architecture, energy aware computing, CAD for integrated systems

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Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.

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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
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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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computational sensors, computer graphics, computer vision, image processing, optics
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Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory
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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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Embedded and real-time systems

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Keywords

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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Keywords

Embedded systems, distributed systems, sensor networks

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

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Keywords

Biometric identification, Cyber-Physical Security, Authentication, Pattern recognition

Semiconductor devices, information storage, optoelectronic systems

Networking, Security, Systems, Software-defined networking, Internet-of-Things security

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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Networked embedded control systems, sensors/actuators networks, control theory

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Keywords

Telecommunications policy and economics

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

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Mobile computing, computer architecture, system design methods, wearable computers
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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Computer-aided design of single chip heterogeneous multiprocessing systems
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Keywords

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Power Systems Protection, Communication in Power Networks, Distributed Generation, Microgrids and Smartgrids

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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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Sensor Networks, Embedded Systems

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