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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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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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Usable privacy and security

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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; automatic software libraries generation; code generation for multicore CPUs, high-performance systems (HPC), GPUs, FPGA-acceleration; logic-in-memory and 3D IC 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

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

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Computer dependability and security; information warfare; intrusion detection; system diagnosis

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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
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

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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

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Embedded and real-time systems
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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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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
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Keywords

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