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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

Usable privacy and security

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Keywords

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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
cloud computing, storage/file systems, operating systems, distributed systems

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Computer architecture, operating systems, file systems, disk arrays

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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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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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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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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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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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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

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

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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

Technology and policy including climate change and electric power

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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

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

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Keywords

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

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Keywords

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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
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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

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Keywords

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

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Keywords

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Networking, Security, Systems, Software-defined networking, Internet-of-Things security
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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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Networked embedded control systems, sensors/actuators networks, control theory
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Keywords

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Keywords

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