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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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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

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
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

Computer architecture, operating systems,
file systems, disk arrays

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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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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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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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Physical and chemical sensors,
transducers, MEMS, magnetism, materials,
thin films, data storage and RF devices

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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

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

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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

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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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Keywords

Scientific computing, parallel computing,
computational database systems, and
virtualization

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Fast computing, algorithms, applied
mathematics, and signal processing
(theory, software, hardware)

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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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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

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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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Security, Authentication, Pattern
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Semiconductor devices, information
storage, optoelectronic systems

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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

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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

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Audio signal processing, music and sound recording applications

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Keywords

Network security; Wireless networking

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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

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

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Magnetic nanotechnology

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

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