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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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Hardware and software verification, automatic theorem proving, symbolic computation

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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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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

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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
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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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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

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Integrated circuits, computer-aided design

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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

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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Keywords

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

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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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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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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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Security, Authentication, Pattern
recognition

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Keywords

Semiconductor devices, information
storage, optoelectronic systems

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

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systems, mobile computing, wireless
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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

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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Computer-aided design of single chip heterogeneous multiprocessing systems

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Optical networks, wireless networks and communications systems, and high-speed networking

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in Power Networks, Distributed Generation,
Microgrids and Smartgrids

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Integration, RF and Analog Integrated
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Nanotubes, Graphene

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science, security, social networks, cyber-
physical networks

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Keywords

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approaches in neuroscience, neural
prosthetic systems

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Multi-core processors, Network-on-chip,
Digital VLSI

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