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Keywords

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Keywords
Coding and signal processing for data storage, biometrics, pattern recognition

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Keywords
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Test and diagnosis of heterogeneous, integrated systems

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Keywords
Formal hardware and software verification

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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

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Keywords
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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

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

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Systems Nanotechnology, Programmable Matter, Reconfigurable Computing, Parallel Computing, Compilers, Architecture

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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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Haptics, microassembly, dynamically stable mobile robots

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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

Language-based security, programming languages, logic and program verification.

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

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

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Keywords

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fault tolerance, distributed systems, embedded systems, mobile systems
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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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Keywords

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

Human/robot interaction, mobile robotics
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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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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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Wireless communications, nanophotonics, spin wave devices

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Computer networks, distributed systems, pervasive computing

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Automatic speech recognition, auditory perception, signal processing

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Statistically based CAD/CAM of VLSI circuits
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Audio signal processing, music and sound recording applications

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Computer-aided design of single chip heterogeneous multiprocessing systems

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Keywords

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

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Keywords

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

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Keywords

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