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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  
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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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

mobile and space robotics, human-robot interaction, mechatronics, automated manufacturing

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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

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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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power systems, optimization, control, energy networks, decomposition

Iannucci, Bob
Director – CyLab Mobility Research Center; Distinguished Service Professor – ECE, Carnegie Mellon Silicon Valley

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Ilic, Marija
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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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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

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

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Keywords
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Keywords
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Keywords
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Keywords
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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

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Keywords

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/Radio IC design

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Telecommunications, wireless networks, internet, spectrum management, communications for homeland security, electronic commerce, developing countries, universal service, security

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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
Keywords

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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Keywords

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Keywords

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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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

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Keywords

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Keywords
Audio signal processing, music and sound recording applications

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Power Systems Protection, Communication in Power Networks, Distributed Generation, Microgrids and Smartgrids

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