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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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CAD and design of analog signal processing circuits and MEMS systems

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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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Hyper-redundant mechanisms, coverage, car-painting, de-mining, mobile robots, motion planning, hybrid controls

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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

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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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, digital signal processing transforms, advanced architectures

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Keywords
Security, privacy, formal methods, and programming languages.

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Keywords
Wireless systems, multimedia compression, signal processing/compression

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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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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

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Keywords

Computer architecture, high-level hardware description and synthesis

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power systems, optimization, control, energy networks, decomposition
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Language-based security, programming languages, logic and program verification.

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**Keywords**

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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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Keywords

Signal processing, biomedical, wavelets, frames, multiresolution, communications

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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

Digital circuit design, computer architecture, memory design, reconfigurable computing

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Keywords

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Keywords

Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.
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Keywords
VLSI/computer architecture, energy aware computing, CAD for integrated systems

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Keywords
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

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

Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory
**Keywords**

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

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Püschel, Markus Adjunct Professor – ECE

**Keywords**

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

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**Paramesh, Jeyanandh** Associate Professor – ECE

**Keywords**

Analog, Mixed-signal and RF/millimeter-wave Integrated Circuit Design,Digitally-assisted analog/RF IC design

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**Patton, Ashley** Director of Engagement and Annual Giving – ECE

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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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Keywords
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Keywords
Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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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

Human/robot interaction, mobile robotics

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Keywords

Biometric identification, Cyber-Physical Security, Authentication, Pattern recognition

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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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Automatic speech recognition, auditory perception, signal processing

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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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Keywords

Photonics, optical networks, biophotonics, sensors, quantum phenomena in optical materials.

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Keywords

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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  
Sensor Networks, Embedded Systems  
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Keywords  
Computer networks, internet, resource management, multimedia  
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Keywords  
Micromagnetics, magnetoelectronic devices, magnetic recording  
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