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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

Keywords
Distributed fault-tolerant computing and computer networks

Keywords
Test and diagnosis of heterogeneous, integrated systems

Keywords
Formal hardware and software verification
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Keywords
CAD and design of analog signal processing circuits and MEMS systems

Optics, Neural Interfaces, Photonic Integrated Circuits, Plasmonics, Sensing

Multimedia coding and streaming, computer vision, pattern recognition, computer graphics, multimodal biometrics

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

Computer security, network security, online crime, security economics, usable security, algorithmic applications of game theory

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Keywords

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

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Keywords

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

computational sensors, computer graphics, computer vision, image processing, optics

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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

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

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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**
Embedded and real-time systems

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

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Rohrer, Ronald A. Professor Emeritus – ECE

Keywords
Electronic circuits, systems design automation

Rosvanis, James Nanofab Technician – Nanofab
Rowe, Anthony Associate Professor – ECE

Keywords
Embedded systems, distributed systems, sensor networks

Rutenbar, Rob A. Adjunct Professor – ECE

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

Salvador, Paul A. Associate Professor – MSE; Affiliated Faculty – DSSC
Sankaranarayanan, Aswin Assistant Professor – ECE
Santhanam, Suresh Principal Process Engineer – ECE
Santos, Augusto Post Doctoral Research Associate – ECE
Satyanarayanan, Mahadev Carnegie Professor – CS; Courtesy Professor – ECE
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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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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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Tomko, Jessica Admissions Coordinator – ECE

Tonguz, Ozan Professor – ECE

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

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Keywords
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Keywords
Specification, verification, reliability, security, distributed systems, software engineering, programming languages

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Keywords
Wireless communications, network science, security, social networks, cyber-physical networks

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

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Keywords
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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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