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</tbody>
</table>

**Keywords**

Thin-film magnetic device design, fabrication, and testing; magnetic disk and tape recording

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<th>Title</th>
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<th>Phone</th>
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<tbody>
<tr>
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</tbody>
</table>

**Keywords**

Computer security, access control, program monitoring, security automata, policy specification

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<tbody>
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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
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Keywords
CAD and design of analog signal processing circuits and MEMS systems

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Keywords
Pattern recognition, neural nets, ATR image processing, product inspection, biometric image processing

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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

Hardware and software verification, automatic theorem proving, symbolic computation

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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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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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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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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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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
Robotics, Innovation, and Software Engineering, focusing on Technological Change and Technology Transfer

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Keywords
Computer vision, autonomous systems, medical robotics

Kar, Soummya Assistant Research Professor – ECE

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

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Keywords
Design and control optimization, machine learning, electric vehicles, smart grid, and renewable energy 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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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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Magnetic recording, optical recording and ferroelectric materials

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Keywords

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Keywords

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Keywords

Integrated circuits, computer-aided design

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Keywords

Computer-aided design and manufacturing of VLSICs

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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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
Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory
Neuman, Charles P. Emeritus
Professor – ECE
Keywords
Control engineering and robotics
Noh, Hae Young Assistant
Professor – CEE; Courtesy Professor – ECE
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Keywords
Scientific computing, parallel computing, computational database systems, and virtualization
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Péraire, Cécile Assistant Teaching Professor – ECE
Püschel, Markus Adjunct Professor – ECE
Keywords
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Keywords
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
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

Electronic circuits, systems design automation

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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, pattern recognition, computer and robot vision, image understanding, image and signal processing

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Keywords

Semiconductor devices, information storage, optoelectronic systems

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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

Strouchen, Michael Employee – ECE

Sullivan, Tom Associate Teaching Professor – ECE; Lecturer – Music

Keywords

Audio signal processing, music and sound recording applications

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Keywords

Network security; Wireless networking

Talukdar, Sarosh Emeritus Professor – ECE

Keywords

Autonomous agents, distributed control, power systems, cascading failures

Tang, Xiaoying Assistant Professor – JIE

Thomas, Donald Professor – ECE
Keywords

Computer-aided design of single chip heterogeneous multiprocessing systems

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Keywords

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

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

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Keywords

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

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Algorithmic Decision theory; Multiobjective optimization; Machine learning.

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Keywords

Magnetic nanotechnology

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Keywords

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

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

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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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Sensor Networks, Embedded Systems

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