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Keywords
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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

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Keywords

CAD and design of analog signal processing circuits and MEMS systems
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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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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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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

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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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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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Keywords

Large-scale systems modeling and simulation; power systems control and pricing algorithms; critical infrastructures/interdependencies

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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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Performance analysis, cloud computing, machine learning  
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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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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

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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Keywords

Physical and chemical sensors, transducers, MEMS, magnetism, materials, thin films, data storage and RF devices
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Keywords

Magnetic materials, material science,  
electron microscopy, x-ray diffraction  

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Keywords

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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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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Keywords

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

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Mukherjee, Tamal  Professor – ECE

Mutlu, Onur  Adjunct Professor – ECE

Keywords

Technology and policy including climate change and electric power

Communications, statistical signal/image, video, and multimedia processing, wavelet transforms

Analog/RF/MEMS/biofluidic microsystem design
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
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
Scientific computing, parallel computing, computational database systems, and virtualization

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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.

MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS

Design, implementation and modeling of electronic integrated systems

Verification of embedded control systems, hybrid dynamical systems, cyber-physical systems, distributed hybrid systems, logic and formal methods

R
Keywords

Embedded and real-time systems

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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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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

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

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Wireless communications, nanophotonics, spin wave devices

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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

Optical networks, wireless networks and communications systems, and high-speed networking
Keywords

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

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Keywords

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Keywords

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

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

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**Keywords**

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

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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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