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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
Formal hardware and software verification

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

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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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**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**  
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
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Keywords
Cloud computing, storage/file systems, operating systems, distributed systems

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Keywords
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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

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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Large-scale systems modeling and simulation; power systems control and
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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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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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**Keywords**

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

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Integrated circuits, computer-aided design

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

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Keywords

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**

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

**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

**Keywords**

Embedded and real-time systems
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Keywords  
Embedded systems, distributed systems, sensor networks  
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Keywords  
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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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<table>
<thead>
<tr>
<th>Keywords</th>
<th>Email</th>
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<td>Computer architecture, reliability, context aware mobile computing</td>
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<td><strong>Keywords</strong></td>
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<tr>
<td>Networked embedded control systems, sensors/actuators networks, control theory</td>
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<td><strong>Keywords</strong></td>
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<tr>
<td>Telecommunications policy and economics</td>
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<td><strong>Sitti, Metin</strong> Professor – MechE, RI; Courtesy Professor – ECE; Affiliated Faculty – DSSC</td>
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<td><strong>Keywords</strong></td>
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<td>Micro/nano-robotics, biologically inspired systems, nanotechnology, MEMS/NEMS</td>
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<td><strong>Keywords</strong></td>
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<td>Mobile computing, computer architecture, system design methods, wearable computers</td>
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Keywords
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Keywords
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Keywords
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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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Photonics, optical networks, biophotonics, sensors, quantum phenomena in optical materials.

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