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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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</tbody>
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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

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Keywords

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Keywords

Databases, data mining, multimedia indexing, performance evaluation

Falsafi, Babak, Adjunct Professor – ECE, CS

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

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  
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Systems Nanotechnology, Programmable Matter, Reconfigurable Computing, Parallel Computing, Compilers, Architecture

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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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Electromagnetics, electromechanics, electrohydrodynamics, microfluidics

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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

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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Magnetic recording, optical recording and ferroelectric materials

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Computer-aided design and manufacturing of VLSICs

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Keywords

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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

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Keywords

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

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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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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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</table>

Keywords

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

Keywords

Semiconductor devices, information storage, optoelectronic systems

Keywords

Networking, Security, Systems, Software-defined networking, Internet-of-Things security
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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Computer architecture, reliability, context aware mobile computing

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Networked embedded control systems, sensors/actuators networks, control theory

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Keywords

Telecommunications policy and economics

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Micro/nano-robotics, biologically inspired systems, nanotechnology, MEMS/NEMS

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**Keywords**

Audio signal processing, music and sound recording applications

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Network security; Wireless networking

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**Keywords**

Autonomous agents, distributed control, power systems, cascading failures

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**Keywords**

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

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Keywords

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

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Sensor Networks, Embedded Systems

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Computer networks, internet, resource management, multimedia

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Micromagnetics, magnetoelectronic devices, magnetic recording

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