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**Keywords**

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

**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

CAD and design of analog signal processing circuits and MEMS systems

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Keywords

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

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

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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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Usable privacy and security

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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
Automatic performance tuning; automatic software libraries generation; code generation for multicore CPUs, high-performance systems (HPC), GPUs, FPGA-acceleration; logic-in-memory and 3DIC systems; domain-specific languages and compilers

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Security, privacy, formal methods, and programming languages.
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Keywords
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Keywords
Computer architecture, operating systems, file systems, disk arrays

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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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**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

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Keywords
pricing algorithms; critical infrastructures/interdependencies

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Keywords
Language-based security, programming
languages, logic and program verification.

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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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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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Keywords

distributed embedded systems, survivable system architecture, dependability

Signal processing, biomedical, wavelets, frames, multiresolution, communications

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

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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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

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

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Keywords
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Keywords

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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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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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Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory

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Keywords

Fast computing, algorithms, applied mathematics, and signal processing (theory, software, hardware)

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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

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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

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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Keywords

Wireless communications, nanophotonics, spin wave devices

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Keywords

Computer networks, distributed systems, pervasive computing

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Keywords

Statistically based CAD/CAM of VLSI circuits
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Keywords
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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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Keywords
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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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Keywords

Magnetic nanotechnology

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Yagan, Osman Assistant Research Professor – ECE

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

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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Keywords

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