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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

Bianchini, Ronald Adjunct Professor – ECE

Keywords

Distributed fault-tolerant computing and computer networks

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Blanton, Shawn Professor – ECE

Keywords

Test and diagnosis of heterogeneous, integrated systems

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Bosle, Kevin Senior Buyer – ECE

Brown, Timothy X Distinguished Service Professor – EPP, ECE

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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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Keywords
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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Keywords

Usable privacy and security

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Keywords
mobile and space robotics, human-robot interaction, mechatronics, automated manufacturing

Du, Jian Post Doctoral Research Associate – ECE

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Elgersma, Steve Senior Systems & Software Engineer – ECE
Erdogmus, Hakan Associate Teaching Professor – ECE

Keywords
Databases, data mining, multimedia indexing, performance evaluation

Faloutsos, Christos Professor – CS; Courtesy Professor – ECE

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; 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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Keywords

Security, privacy, formal methods, and programming languages.

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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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Keywords

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Keywords

Scheduling of computer systems, workload characterization, heavy-tailed distributions
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Higgs III, Fred Professor – MechE; Courtesy Professor – ECE (412)-268-2486
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Keywords

Tribology, nanomanufacturing, multi-scale particle flows

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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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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Keywords
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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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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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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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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Keywords

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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Keywords

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
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
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
Keywords

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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Keywords

Electronic circuits, systems design automation

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Keywords

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Keywords

VLSI CAD, algorithms, analog and digital circuits, automatic speech recognition

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Keywords
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Keywords
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Keywords
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Keywords
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Keywords
Modern superscalar processor design, instruction-level parallelism and code scheduling

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Keywords

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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

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Keywords
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Keywords
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Keywords
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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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Tomko, Jessica  Admissions Coordinator – ECE  
Tonguz, Ozan  Professor – ECE  
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  
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Keywords
Nanoelectronics, Heterogeneous Integration, RF and Analog Integrated Circuits, Biomedical Electronics, Carbon Nanotubes, Graphene

Keywords
Magnetic nanotechnology

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Keywords
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Keywords

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Keywords
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Keywords
Multi-core processors, Network-on-chip, Digital VLSI

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Keywords
Computer networks, internet, resource management, multimedia

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Keywords

Sensor Networks, Embedded Systems

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Keywords

Micromagnetics, magnetoelectronic devices, magnetic recording

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