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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

Biontrim, Grace Administrative Coordinator – ECE

Bishop, Cathy Instructor – ECE

Blanton, Shawn Professor – ECE
Keywords
Test and diagnosis of heterogeneous, integrated systems

Bollapragada, Vara Post Doctoral Research Associate – ECE

Boni, Dante Equipment Technician – Nanofab

Bosle, Kevin Senior Buyer – ECE

Brown, Timothy X Distinguished Service Professor – EPP, ECE

Brumley, David J. Associate Professor – CS; Director – CyLab; Professor – ECE

Bryant, Randal Professor – CS; Courtesy Professor – ECE

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  

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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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Microelectromechanical systems (MEMS), RF MEMS, inertial/bio/chemical sensors, MEMS CAD, micro-robotics

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Molecular beam epitaxy, scanning tunneling microscopy

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
cloud computing, storage/file systems, operating systems, distributed systems

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Keywords
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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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

I

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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  
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  
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Keywords  
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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

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

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Keywords

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

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Analog/RF/MEMS/biofluidic microsystem design

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Computer architecture, hardware/software interaction, operating systems, fault tolerance
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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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MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS

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Design, implementation and modeling of electronic integrated systems

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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

Electronic circuits, systems design automation

Embedded systems, distributed systems, sensor networks

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

S

Keywords

Electronic circuits, systems design automation

Embedded systems, distributed systems, sensor networks

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

S
**Savvides, Marios**  
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Biometrics Center  

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

**Schlesinger, T.E. (Ed)**  
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Keywords  
Semiconductor devices, information storage, optoelectronic systems

**Schneider, Jeff**  
Research Professor – RI; Courtesy Professor – ECE

Keywords  
Networking, Security, Systems, Software-defined networking, Internet-of-Things security

**Serafin, Stephen**  
Senior Systems Engineer – ECE

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

Mobile computing, computer architecture, system design methods, wearable computers

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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
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
Sundar, Vignesh Post Doctoral Research Associate – DSSC

Tague, Patrick Associate Research Professor – CyLab, INI, ECE

Keywords

Network security; Wireless networking

Talukdar, Sarosh Professor Emeritus – ECE

Keywords

Autonomous agents, distributed control, power systems, cascading failures

Tang, Xiaoying Adjunct Professor – ECE

Tayur, Sridhar Courtesy Professor – ECE; Professor – Tepper

Thomas, Donald Professor Emeritus – ECE

Keywords

Computer-aided design of single chip heterogeneous multiprocessing systems

Tims, Joshua Systems Administrator – ECE

Tomko, Jessica Admissions Coordinator – ECE

Tonguz, Ozan Professor – ECE

Keywords

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

Towe, Elias Professor – ECE; Albert and Ethel Grobstein Memorial Professor – MSE; Director – CNXT

Keywords

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

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Keywords

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Keywords

Magnetic nanotechnology

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Ye, Terry Adjunct Professor – ECE

Yichye, Shahar Cleanroom Construction Protocol Manager – ECE

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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

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