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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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Bhagavatula, Vijayakumar U.A. and Helen Whitaker Professor – ECE; Affiliated Faculty – DSSC; Associate Dean of Faculty and Graduate Affairs – CIT

**Keywords**

Coding and signal processing for data storage, biometrics, pattern recognition

Bianchini, Ronald Adjunct Professor – ECE

**Keywords**

Distributed fault-tolerant computing and computer networks

Bintrim, 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

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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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Professor – ISR, EPP; Courtesy Professor – ECE

Keywords
Usable privacy and security

Datta, Anupam
Associate Professor – CyLab, ECE

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Associate Professor – CyLab, ECE

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**Keywords**

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

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Elgersma, Steve Senior Systems & Software Engineer – ECE

Erdogmus, Hakan Associate Teaching Professor – ECE

Ervin, Allison Administrative Coordinator – ECE

Faloutsos, Christos Professor – CS; Courtesy Professor – ECE

Falsafi, Babak Adjunct Professor – ECE, CS

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**Keywords**

Databases, data mining, multimedia indexing, performance evaluation

**Keywords**

Computer architecture, memory systems, multiprocessor architecture, architectural support for gigascale integration, design evaluation tools
Keywords

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

Feenstra, Randy Professor – Physics; Courtesy Professor – ECE

Feenstra, Randy

Keywords

Molecular beam epitaxy, scanning tunneling microscopy

Ferris, Sherri Administrative Coordinator – ECE

Ferris, Sherri

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Fox, Toni

Franchetti, Franz Professor – ECE; Faculty Director of ITS – ECE

Franchetti, Franz

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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Fredrikson, Matt

Keywords

Security, privacy, formal methods, and programming languages.

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Furuta, Masaki

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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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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 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

Joshi, Gauri Assistant Professor – ECE

Keywords
performance analysis, cloud computing, machine learning

K

Kainerstorfer, Jana Courtesy Professor – ECE

Keywords
Computer vision, autonomous systems, medical robotics

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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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Keywords

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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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

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

Analog/RF/MEMS/biofluidic microsystem design
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

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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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

Semiconductor devices, information storage, optoelectronic systems

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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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

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Computer networks, distributed systems, pervasive computing

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Keywords
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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

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Keywords
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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Keywords

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Keywords

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Keywords

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

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

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Computer networks, internet, resource management, multimedia

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Keywords

Sensor Networks, Embedded Systems

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