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**Keywords**

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

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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

Keywords

Test and diagnosis of heterogeneous, integrated systems

Bollapragada, Vara Post Doctoral Research Associate – ECE

Keywords

Formal hardware and software verification

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
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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

Computer security, network security, online crime, security economics, usable security, algorithmic applications of game theory

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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

Keywords

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

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Keywords

Molecular beam epitaxy, scanning tunneling microscopy

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Fox, Toni Sponsored Research Assistant – CyLab

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

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

Fredrikson, Matt Assistant Professor – ISR, CS; Courtesy Professor – ECE

Keywords

Security, privacy, formal methods, and programming languages.

Frost, Brittany Senior Sponsored Research Assistant – CyLab

Frost, Donna International Scholar Coordinator – ECE

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Gamble, Andrew Laboratory Electronics Supervisor – DSSC

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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

Semiconductor device physics and semiconductor process technology, sensors

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Keywords

Haptics, microassembly, dynamically stable mobile robots

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Keywords

power systems, optimization, control, energy networks, decomposition

Iannucci, Bob  Director – CyLab Mobility Research Center; Distinguished Service Professor – ECE, Carnegie Mellon Silicon Valley

Keywords

Mobile and embedded computing, scalable systems, sensor networks, emergency communications systems

Ilic, Jovan  Associate Teaching Professor – ECE

Ilic, Marija  Professor Emeritus – ECE

Keywords

Large-scale systems modeling and simulation; power systems control and pricing algorithms; critical infrastructures/interdependencies

Ishihara, Abe  Courtesy Professor – ECE

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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
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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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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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

Morgan, James  Professor – CS; Courtesy Professor – ECE

Morris, James  Professor – CS; Courtesy Professor – ECE

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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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Mukherjee, Tamal  Professor – ECE

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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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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Embedded and real-time systems
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Reddy, Raj  Courtesy Professor – ECE; Mozah Bint Nasser University Professor – CS
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Ricketts, David  Adjunct Professor – ECE

Keywords
Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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Rohrer, Ronald A.  Professor Emeritus – ECE

Keywords
Electronic circuits, systems design automation

Rosvanis, James  Nanofab Technician – Nanofab
Rowe, Anthony  Associate Professor – ECE

Keywords
Embedded systems, distributed systems, sensor networks

Rutenbar, Rob A.  Adjunct Professor – ECE

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

Salvador, Paul A.  Associate Professor – MSE; Affiliated Faculty – DSSC
Sankaranarayanan, Aswin  Assistant Professor – ECE
Santhanam, Suresh  Principal Process Engineer – ECE
Satyanarayanan, Mahadev  Carnegie Professor – CS; Courtesy Professor – ECE

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Savvides, Marios  Research Professor – ECE; Director – CyLab Biometrics Center

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

Schlesinger, T.E. (Ed) Adjunct Professor – ECE

Keywords
Semiconductor devices, information storage, optoelectronic systems

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Scott, Stephanie Academic Program Advisor – ECE

Sekar, Vyas Assistant Professor – ECE

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

Seshan, Srinivasan Associate Professor – CS; Courtesy Professor – ECE

Keywords
Network protocols, applications, distributed systems, mobile computing, wireless networks

Shah, Nihar Assistant Professor – MLD, CSD; Courtesy Professor – ECE

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

Siewiorek, Daniel Buhl University Professor – HCII, ECE, CSD

20
Keywords

Computer architecture, reliability, context aware mobile computing

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keywords

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keywords

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

Statistically based CAD/CAM of VLSI circuits

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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 multiprocessor systems

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Keywords

Power Systems Protection, Communication in Power Networks, Distributed Generation, Microgrids and Smartgrids

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Vernon, David Teaching Faculty – ECE
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Keywords

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

Wen, Tianlong Post Doctoral Research Associate – Physics, DSSC
White, Robert M. Emeritus University Professor – ECE, EPP; Affiliated Faculty – DSSC

Keywords

Magnetic nanotechnology
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</tbody>
</table>

Keywords

Wireless communications, network science, security, social networks, cyber-physical networks

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

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

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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