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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
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

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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Professor – ECE

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

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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

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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Jordan, Angel Emeritus University Professor – ECE, RI

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

Kanade, Takeo U.A. and Helen Whitaker Professor – CS, RI; Courtesy Professor – ECE

Computer vision, autonomous systems, medical robotics

Kar, Soummya Associate Research Professor – ECE

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

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

Moya, Linda  Assistant Teaching Professor – ECE, SDS

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
Computer architecture, compilers, operating systems, parallel processing

N
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

Pileggi, Leah  Professional Writer – ECE; Professional Assistant – ECE

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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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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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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
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

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

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

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

Stern, Richard Professor – ECE, LTI, CS, BME; Lecturer – Music

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

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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

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

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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Wasserman, Anthony Adjunct Professor – ECE

Weiler, Mark Equipment Manager, Nanofabrication Facility – ECE

Weiss, Lee Courtesy Professor – ECE; Research Professor – RI

Weldon, Jeffrey Adjunct Professor – ECE

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

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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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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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