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**Keywords**

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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

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

Brown, Timothy X Distinguished Service Professor – EPP, ECE
Brumley, David J. Associate Professor – CSD; Director – CyLab; Professor – ECE
Bryant, Randal Professor – CS; Courtesy Professor – ECE
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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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Christin, Nicolas  Associate Research Professor – EPP; Assistant Research Professor – CyLab; Courtesy Professor – ECE

Keywords

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

Chung, Pil Seung  Post Doctoral Research Associate – ChemE, DSSC

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Condessa, Filipe  Post Doctoral Research Associate – ECE

Conley, Kelley  Research Administrator – ECE

Copetas, Catherine  ECE/SCS Office of Engagement and Annual Giving – ECE

Cowan, Christina  Director of Administrative Services & Office of the Department Head – ECE

Cranor, Lorrie F.  Professor – ISR, EPP; Courtesy Professor – ECE

Keywords

Usable privacy and security

Datta, Anupam  Professor – ECE; Associate Professor – CyLab

Davis, Robert  John and Claire Bertucci Distinguished Professor – MSE; Courtesy Professor – ECE

Decker, Dave  Manager of Web Development Services – ECE

De La Torre Frade, Fernando  Courtesy Professor – ECE; Research Scientist – RI

Dey, Anind K.  Associate Professor – HCII; Courtesy Professor – ECE

Dolan, John  Courtesy Professor – ECE; Senior Systems Scientist – RI
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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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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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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Grupe, Alan, Senior Facilities Manager – ECE

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Harding, Meighan, Senior Director of Operations – ECE

He, Bin, Courtesy Professor – ECE; Professor – BME; Department Head – BME

Higgs III, Fred, Professor – MechE; Courtesy Professor – ECE

Hills, Alex, Distinguished Service Professor – EPP; Courtesy Professor – ECE

Hilton, Chad, Senior Systems & Software Engineer – ECE

Hoburg, James, Emeritus Faculty – ECE

Keywords

Scheduling of computer systems, workload characterization, heavy-tailed distributions

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Keywords

Electromagnetics, electromechanics, electrophydrodynamics, 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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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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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

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

Mutlu, Onur  Adjunct Professor – ECE

Keywords

Computer architecture, hardware/software interaction, operating systems, fault tolerance

Nace, Bill  Associate Teaching
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Keywords

Digital Design, Embedded Systems, Networks

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Keywords

fault tolerance, distributed systems, embedded systems, mobile systems

Narasimhan, Srinivasa  Associate Professor – RI; Courtesy Professor – ECE

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
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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

Parno, Bryan  Associate Professor – ECE, CSD  (412) 268-2033
Telecommunications, wireless networks, internet, spectrum management, communications for homeland security, electronic commerce, developing countries, universal service, security

Information and systems security, focusing on network security (internet, mobile computing, and sensor networks) as well as on trusted computing.

MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS

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
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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Biometrics Center

Keywords

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

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Keywords

Semiconductor devices, information storage, optoelectronic systems

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Keywords

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

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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

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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
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

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

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

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Keywords

Sensor Networks, Embedded Systems

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Micromagnetics, magnetoelectronic devices, magnetic recording

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