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**Keywords**

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

**Keywords**

Computer security, access control, program monitoring, security automata, policy specification
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Keywords
Coding and signal processing for data storage, biometrics, pattern recognition

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Distributed fault-tolerant computing and computer networks

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Test and diagnosis of heterogeneous, integrated systems

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Keywords

CAD and design of analog signal processing circuits and MEMS systems

Optics, Neural Interfaces, Photonic Integrated Circuits, Plasmonics, Sensing

Multimedia coding and streaming, computer vision, pattern recognition, computer graphics, multimodal biometrics

Hyper-redundant mechanisms, coverage, car-painting, de-mining, mobile robots, motion planning, hybrid controls
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

Keywords

Chung, Pil Seung

Cominos, Lenna  Corporate Relations – ECE

Condeessa, Filipe  Post Doctoral Research Associate – ECE

Conley, Kelley  Research Administrator – ECE

Keywords
Usable privacy and security

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

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

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

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Datta, Anupam  Professor – ECE; Associate Professor – CyLab

Keywords

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

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Dolan, John  Courtesy Professor – ECE; Senior Systems Scientist – RI

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

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Keywords
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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

Harding, Meighan, Senior Director of Operations – ECE

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Keywords

Tribology, nanomanufacturing, multi-scale particle flows

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

Keywords

Research in wireless technology and telecommunications policy

Hilton, Chad, Senior Systems & Software Engineer – ECE

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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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Network economics and pricing, cloud computing, mobile/edge computing

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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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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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Signal processing, biomedical, wavelets, frames, multiresolution, communications

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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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Magnetic recording, optical recording and ferroelectric materials

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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**

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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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

N

Nace, Bill Associate Teaching Professor – ECE

Keywords

Digital Design, Embedded Systems, Networks

Narasimhan, Priya Professor – ECE

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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Event and Project Coordinator – ECE

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Mukherjee, Tamal Professor – ECE

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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**

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

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Keywords

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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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Network security; Wireless networking
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Computer-aided design of single chip heterogeneous multiprocessing systems

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Keywords

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

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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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Sensor Networks, Embedded Systems

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