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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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Professor – CEE; Courtesy Professor – ECE
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

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Keywords
Distributed fault-tolerant computing and computer networks

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Keywords
Test and diagnosis of heterogeneous, integrated systems

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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

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

Cominos, Lenna  Corporate Relations – ECE

Condeessa, 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  Associate Professor – CyLab, ECE

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

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

Fredrikson, Matt Assistant Professor – ISR, CS; Courtesy Professor – ECE (412) 268-3992 mfredrik@andrew.cmu.edu

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, electromechnanics, 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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Jia, Limin
Assistant Research Professor – CyLab, INI, ECE

Keywords
Language-based security, programming languages, logic and program verification.

Joe-Wong, Carlee
Assistant Professor – ECE
Keywords
Network economics and pricing, cloud computing, mobile/edge computing

Johnson, Aaron
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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
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Keywords
Performance analysis, cloud computing, machine learning

Kainerstorfer, Jana
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Kanade, Takeo
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Keywords

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

Keywords

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

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

Keywords

Magnetic recording, optical recording and ferroelectric materials

Keywords
Keywords

Physical and chemical sensors, transducers, MEMS, magnetism, materials, thin films, data storage and RF devices

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Professor – ECE; Affiliated Faculty – DSSC

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
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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

Mutlu, Onur Adjunct Professor – ECE

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

Negi, Rohit Professor – ECE; Affiliated Faculty – DSSC

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  leahp1@andrew.cmu.edu
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<td>Racko, Angela</td>
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**Keywords**

Verification of embedded control systems, hybrid dynamical systems, cyber-physical systems, distributed hybrid systems, logic and formal methods

**R**

Embedded and real-time systems

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

Electronic circuits, systems design automation

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