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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

Bianchini, Ronald  Adjunct  (412)-968-9110
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

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Bryant, Randal  Professor – CS; Courtesy Professor – 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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Keywords

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

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Keywords

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

Cominos, Lenna  Corporate Relations – ECE

Keywords

Cominos, Lenna  Corporate Relations – ECE

Condessa, Filipe  Post Doctoral Research Associate – ECE

Keywords

Condessa, Filipe  Post Doctoral Research Associate – ECE

Conley, Kelley  Research Administrator – ECE

Keywords

Conley, Kelley  Research Administrator – ECE

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

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

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

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Datta, Anupam  Associate Professor – CyLab, ECE

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

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Decker, Dave  Manager of Web Development Services – ECE

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Decker, Dave  Manager of Web Development Services – ECE

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

Keywords

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

Keywords

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

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

Keywords

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

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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
Joe-Wong, Carlee Assistant Professor – ECE
Keywords
Performance analysis, cloud computing, machine learning
Johnson, Aaron Courtesy Professor – ECE, RI; Assistant Professor – MechE
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
Computer vision, autonomous systems, medical robotics
Kar, Soummya Associate Professor – ECE
Keywords
Keywords

Distributed Information Processing, Multi-Agent Decision Making, Adaptive Stochastic Systems

**Kass, Leona** Director of Student and Academic Affairs – ECE

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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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Morgan, Granger  Professor – ECE; Lord Professor – EPP
Morris, James  Professor – CS; Courtesy Professor – ECE
Moura, José  Associate Department Head - Research & Strategic Initiatives – ECE; Philip L. and Marsha Dowd University Professor – ECE, BME; Affiliated Faculty – DSSC
Moutis, Panayiotis  Post Doctoral Research Associate – ECE
Mowry, Todd  Professor – CS; Courtesy Professor – ECE; Co-Director – CALCM
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Mukherjee, Tamal  Professor – ECE
Mutlu, Onur  Adjunct Professor – ECE

Keywords
Technology and policy including climate change and electric power

Communications, statistical signal/image, video, and multimedia processing, wavelet transforms

Analog/RF/MEMS/biofluidic microsystem design
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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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

Pileggi, Larry Tanoto Professor – ECE (412)-268-6774 pileggi@ece.cmu.edu

Keywords

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

Prelich-Knight, Lyz Academic Services Coordinator – ECE (412)-268-5087 lyz@ece.cmu.edu
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Email</th>
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</thead>
<tbody>
<tr>
<td>Racko, Angela</td>
<td>Finance and Business Associate – ECE</td>
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</tr>
<tr>
<td>Rajkumar, Raj</td>
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</tr>
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<td>Keywords</td>
<td>Embedded and real-time systems</td>
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<tr>
<td>Keywords</td>
<td>Nanoscale electronics, nanoscale devices,</td>
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<td></td>
<td>non-linear dynamics, analog circuits</td>
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<td>Keywords</td>
<td>Electronic circuits, systems design automation</td>
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<tr>
<td>Keywords</td>
<td>Embedded systems, distributed systems,</td>
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<td>sensor networks</td>
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</table>
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

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

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Keywords

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Keywords

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

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

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Automatic speech recognition, auditory perception, signal processing

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Magnetic nanotechnology

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

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

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