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Bhagavatula, Vijayakumar U.A. and Helen Whitaker Professor – ECE; Affiliated Faculty – DSSC; Associate Dean of Faculty and Graduate Affairs – CIT
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Keywords

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

Balram, Nikhil Adjunct Professor – ECE

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Keywords

Computer security, access control, program monitoring, security automata, policy specification
Keywords

Coding and signal processing for data storage, biometrics, pattern recognition

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Keywords

Distributed fault-tolerant computing and computer networks

**Bishop, Cathy** Instructor – ECE
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Keywords

Test and diagnosis of heterogeneous, integrated systems

**Brown, Timothy X** Distinguished Service +250 78 767 40 62
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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

Chase, Steven  Courtesy Professor – ECE

Chen, Tsuhan  Adjunct Professor – ECE

Keywords

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

Chi, Yuejie  Associate Professor – ECE

Choset, Howie  Professor – RI; Courtesy Professor – ECE

Keywords

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

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
De La Torre Frade, Fernando
Courtesy Professor – ECE; Research Scientist – RI
Dey, Anind K. Associate Professor – ECE; Research Scientist – RI
Dolan, John Courtesy Professor – ECE; Senior Systems Scientist – RI

Keywords
mobile and space robotics, human-robot interaction, mechatronics, automated manufacturing

Eckhardt, Dave Courtesy Professor – ECE; Assistant Teaching Professor – CS
Erdogmus, Hakan Associate Teaching Professor – ECE

Faloutsos, Christos Professor – CS; Courtesy Professor – ECE

Keywords
Databases, data mining, multimedia indexing, performance evaluation

Falsafi, Babak Adjunct Professor – ECE, CS

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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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

Hong, Jason Courtesy jasonh@cs.cmu.edu
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Keywords  
power systems, optimization, control, energy networks, decomposition  

**Iannucci, Bob** Distinguished Service Professor – Carnegie Mellon Silicon Valley, ECE; Director – CyLab Mobility Research Center  
Keywords  
Mobile and embedded computing, scalable systems, sensor networks, emergency communications systems  

**Ilic, Jovan** Associate Teaching Professor – ECE  
**Ilic, Marija** Professor Emeritus – ECE  
Keywords  
Large-scale systems modeling and simulation; power systems control and pricing algorithms; critical infrastructures/interdependencies  

**Ishihara, Abe** Courtesy Professor – ECE  

**Jackson, Collin** Adjunct Professor – ECE  
**Jahanian, Farnam** Vice President for Research – CMU; Courtesy Professor – ECE  
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**Jia, Limin** Assistant Research Professor – CyLab, INI, ECE  
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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**Keywords**

Robotics, Innovation, and Software Engineering, focusing on Technological Change and Technology Transfer

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**Keywords**

Performance analysis, cloud computing, machine learning

K

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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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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

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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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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

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

Perrig, Adrian  
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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.

**Piazza, Gianluca**

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**Keywords**

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

**Pileggi, Larry Tanoto**

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**Keywords**

Design, implementation and modeling of electronic integrated systems

**Platzer, Andre**

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**Keywords**

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

**Rajkumar, Raj**

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**Keywords**

Embedded and real-time systems

**Ramakrishnan, Bhiksha Raj**

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**Keywords**

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits
Rohrer, Ronald A. Professor Emeritus – ECE

Keywords

Electronic circuits, systems design automation

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

Satyanarayanan, Mahadev Carnegie Professor – CS; Courtesy Professor – ECE

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Keywords

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

Schlesinger, T.E. (Ed) Adjunct Professor – ECE

Keywords

Semiconductor devices, information storage, optoelectronic systems
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Keywords</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schneider, Jeff</td>
<td>Research Professor – RI; Courtesy Professor – ECE</td>
<td>Networking, Security, Systems, Software-defined networking, Internet-of-Things security</td>
</tr>
<tr>
<td>Sekar, Vyas</td>
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</tr>
<tr>
<td>Seshan, Srinivasan</td>
<td>Associate Professor – CS; Courtesy Professor – ECE</td>
<td>Keywords: Network protocols, applications, distributed systems, mobile computing, wireless networks</td>
</tr>
<tr>
<td>Shah, Nihar</td>
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<td>Shen, John</td>
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<tr>
<td>Siewiorek, Daniel</td>
<td>Buhl University Professor – HCII, ECE, CSD</td>
<td>Keywords: Modern superscalar processor design, instruction-level parallelism and code scheduling</td>
</tr>
<tr>
<td>Singh, Rita</td>
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<tr>
<td>Sinopoli, Bruno</td>
<td>Professor – MechE, ECE, RI</td>
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</tr>
<tr>
<td>Sirbu, Marvin</td>
<td>Professor – EPP; Courtesy Professor – ECE</td>
<td>Keywords: Networked embedded control systems, sensors/actuators networks, control theory</td>
</tr>
</tbody>
</table>
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
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
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V

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Keywords
Nanoelectronics, Heterogeneous Integration, RF and Analog Integrated Circuits, Biomedical Electronics, Carbon Nanotubes, Graphene

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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