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Bhagavatula, Vijayakumar U.A. and Helen Whitaker  
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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

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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 mcbishop@andrew.cmu.edu
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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
Carlisle, Martin Teaching Professor – INI; Director of Academic Affairs – INI; Courtesy Professor – ECE (412)-268-3390
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Keywords

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

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Professor – ECE

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

Usable privacy and security

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**Keywords**
- mobile and space robotics, human-robot interaction, mechatronics, automated manufacturing
- Databases, data mining, multimedia indexing, performance evaluation
- Computer architecture, memory systems, multiprocessor architecture, architectural support for gigascale integration, design evaluation tools
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

He, Bin Courtesy bhe1@andrew.cmu.edu
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Professor – ECE

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

Hoe, James C. Professor – ECE, CS; Co-Director – CALCM

Keywords

Computer architecture, high-level hardware description and synthesis

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Keywords

Haptics, microassembly, dynamically stable mobile robots

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**Hug, Gabriela** Adjunct Faculty – ECE  
**Keywords**  
power systems, optimization, control, energy networks, decomposition  
**I**  
**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  
**J**  
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**Jayan, B. Reeja** Courtesy Professor – ECE  
**Jhon, Myung S.** Professor – ChemE; Affiliated Faculty – DSSC  
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**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

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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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Khosla, Pradeep K.  Adjunct  pkk@ece.cmu.edu
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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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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
**Kryder, Mark** Emeritus University
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**Keywords**
Magnetic recording, optical recording and ferroelectric materials

**Kumar, Swarun S.** Assistant Professor – ECE

**Lambeth, David N.** Professor Emeritus – ECE

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

**Lane, Ian R.** Associate Research Professor – ECE

**Laughlin, David** ALCOA Professor – MSE; Courtesy Professor – ECE; Affiliated Faculty – DSSC

**Keywords**
Magnetic materials, material science, electron microscopy, x-ray diffraction

**Li, Ming** Adjunct Professor – ECE

**Li, Qing** Adjunct Faculty – ECE

**Li, Xin** Adjunct Faculty – ECE

**Keywords**
Integrated circuits, computer-aided design

**Lohn, Jason D.** Adjunct Faculty – ECE

**Low, Tze Meng** Assistant Research Professor – ECE

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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

Marculescu, Diana  David Edward Schramm Professor – ECE; Associate Department Head for Academic Affairs – ECE  
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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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Miskov-Zivanov, Natasa 
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Morgan, Granger 
Professor – ECE; Lord Professor – EPP

Keywords
Technology and policy including climate change and electric power

Morris, James 
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Moura, Jose 
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Keywords
Communications, statistical signal/image, video, and multimedia processing, wavelet transforms

Mowry, Todd 
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Keywords
Computer architecture, compilers, operating systems, parallel processing

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Mukherjee, Tamal 
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Keywords
Analog/RF/MEMS/biofluidic microsystem design

Mutlu, Onur 
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Keywords

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

N

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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

Keywords

Design, implementation and modeling of electronic integrated systems

**Platzer, Andre** Assistant Professor – CSD; Associate Professor – ECE

Keywords

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

**Rajkumar, Raj** Professor – ECE, CSD; Co-Director – GM-CM CRL; Director – Real-Time and Multimedia Systems Laboratory

Keywords

Embedded and real-time systems

**Ramakrishnan, Bhiksha Raj** Courtesy Professor – ECE; Associate Professor – LTI

**Reddy, Raj** Courtesy Professor – ECE; Mozah Bint Nasser University Professor – CS

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Keywords
Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits
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Electronic circuits, systems design automation
Rowe, Anthony Associate Professor – ECE
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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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**Sekar, Vyas** Assistant Professor – ECE

Keywords

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

**Seshan, Srinivasan** Associate Professor – CS; Courtesy Professor – ECE

Keywords

Network protocols, applications, distributed systems, mobile computing, wireless networks

**Shah, Nihar** Assistant Professor – MLD, CSD; Courtesy Professor – ECE

Keywords

Modern superscalar processor design, instruction-level parallelism and code scheduling

**Siewiorek, Daniel** Buhl University Professor – HCII, ECE, CSD

Keywords

Computer architecture, reliability, context aware mobile computing

**Singh, Rita** Courtesy Professor – ECE; Senior Systems Scientist – LTI

**Sinopoli, Bruno** Professor – MechE, ECE, RI

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**Shen, John** Professor – ECE

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**Seshan, Srinivasan** Associate Professor – CS; Courtesy Professor – ECE

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**Sinopoli, Bruno** Professor – MechE, ECE, RI
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

T

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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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Taylor, Rebecca Assistant Professor – MechE; Courtesy Professor – ECE bex@andrew.cmu.edu
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<thead>
<tr>
<th>Name</th>
<th>Title/Role</th>
<th>Keywords</th>
<th>Contact Information</th>
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</thead>
<tbody>
<tr>
<td>Tayur, Sridhar</td>
<td>Courtesy Professor – ECE; Professor – Tepper</td>
<td>Computer-aided design of single chip heterogeneous multiprocessing systems</td>
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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

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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