Photo-board View | List View

**Agarwal, Yuvraj** Courtesy
Professor – ECE; Assistant
Professor – CS

**Amvrosiadis, George** Assistant
Research Professor – ECE

**Andersen, David** Adjunct
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**Anna, Shelley L.** Associate
Professor – MechE; Affiliated
Faculty – DSSC

**Bain, Jim**
Professor – ECE, MSE; Associate
Director – DSSC

**Bauer, Lujo** Associate
Professor – ISR, ECE

**Berges, Mario** Assistant
Professor – ECE; Courtesy
Professor – CEE; Courtesy

**Bhagavatula, Vijayakumar** U.A.
and Helen Whitaker
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Faculty – DSSC; Associate Dean of
Faculty and Graduate Affairs – CIT

**Keywords**

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

**Balram, Nikhil** Adjunct Professor – ECE

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Professor – ISR, ECE

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Faculty – DSSC; Associate Dean of
Faculty and Graduate Affairs – CIT

**Keywords**

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

**Beckman, Nathan** Courtesy
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Professor – CSD

**Berger, Luc** Professor
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Faculty – DSSC

**Berges, Mario** Assistant
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Keywords

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

**Beckmann, Nathan** Courtesy
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Faculty and Graduate Affairs – CIT

**Keywords**

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

**Beckman, Nathan** Courtesy
Professor – ECE; Assistant
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Faculty and Graduate Affairs – CIT

**Keywords**

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

**Beckmann, Nathan** Courtesy
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Faculty – DSSC

**Berges, Mario** Assistant
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Faculty – DSSC; Associate Dean of
Faculty and Graduate Affairs – CIT

**Keywords**

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

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

Bianchini, Ronald Adjunct Professor – ECE (412)-968-9110 rpbleece@cmu.edu

Keywords

Distributed fault-tolerant computing and computer networks

Bishop, Cathy Instructor – ECE mcbishop@andrew.cmu.edu
Blanton, Shawn Professor – ECE (412)-268-2987 rblanton@andrew.cmu.edu

Keywords

Test and diagnosis of heterogeneous, integrated systems

Brown, Timothy X Distinguished Service +250 78 767 40 62 Professor – EPP, ECE timxb@andrew.cmu.edu
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Bryant, Randal Professor – CS; Courtesy Professor – ECE (412)-268-8821 bryant@cs.cmu.edu

Keywords

Formal hardware and software verification

Carley, Kathleen Professor – ISR; Courtesy Professor – ECE kathleen.carley@cs.cmu.edu
Carley, Rick ST Microelectronics Professor – ECE; Affiliated Faculty – DSSC (412)-268-3597 lrc@ece.cmu.edu

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  schase@andrew.cmu.edu
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Keywords

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

Chi, Yuejie  Associate Professor – ECE  yuejiec@andrew.cmu.edu

Choset, Howie  Professor – RI; Courtesy  (412)-268-2495
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  (412)-268-4432
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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

Datta, Anupam  Associate Professor – CyLab, ECE  danupam@andrew.cmu.edu

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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

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

Fanti, Giulia Assistant Professor – ECE

Fedder, Gary Howard M. Wilkoff Professor – ECE, RI; Co-Director – MEMS; Affiliated Faculty – DSSC

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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

Franchetti, Franz Professor – ECE; Faculty Director of ITS – ECE

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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.

Ganger, Greg Affiliated Faculty – CSD; Jatras Professor – ECE, CSD; Director – PDL

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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

Gligor, Virgil  Professor – ECE; Co-Director – CyLab  (412)-268-9833

Goldstein, Seth  Associate  Professor – CSD; Courtesy Professor – ECE

Keywords
Systems Nanotechnology, Programmable Matter, Reconfigurable Computing, Parallel Computing, Compilers, Architecture

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Keywords
Semiconductor device physics and semiconductor process technology, sensors

Griss, Martin L.  Adjunct  Professor – ECE  (650)-335-2805

Grover, Pulkit  Assistant  Professor – ECE  412-268-3644

Harchol-Balter, Mor  Associate  Professor – CS; Courtesy Professor – ECE  (412)-268-7893

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

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

Jayan, B. Reeja  
Courtesy Professor – ECE

Jhon, Myung S.  
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Jia, Limin  
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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

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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

**Kovaevi, Jelena** Hamerschlag
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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

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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
Integrated circuits, computer-aided
design

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Keywords

Digital circuit design, computer architecture, memory design, reconfigurable computing

Majetich, Sara A. Professor – Physics; Courtesy Professor – ECE; Affiliated Faculty – DSSC
Maly, Wojciech Professor Emeritus – ECE

Keywords

Computer-aided design and manufacturing of VLSICs

Marculescu, Diana David Edward Schramm Professor – ECE; Associate Department Head for Academic Affairs – ECE

Keywords

VLSI/computer architecture, energy aware computing, CAD for integrated systems

Marculescu, Radu Professor – ECE

Keywords

Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.

Maxion, Roy Research Professor – CS; Courtesy Professor – ECE

Keywords

Computer dependability and security; information warfare; intrusion detection; system diagnosis

McHenry, Michael E. Professor – MSE; Affiliated Faculty – DSSC
Mengshoel, Ole Principal Systems Scientist – ECE
Miskov-Zivanov, Natasa Adjunct Faculty – ECE
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Keywords
Technology and policy including climate change and electric power

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Moura, José  Associate Department Head - Research & Strategic Initiatives – ECE; Philip L. and Marsha Dowd University Professor – ECE, BME; Affiliated Faculty – DSSC
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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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Peha, Jon  Professor – EPP; Courtesy Professor – ECE  peha@ece.cmu.edu

Keywords
Telecommunications, wireless networks, internet, spectrum management, communications for homeland security, electronic commerce, developing countries, universal service, security

Perrig, Adrian  Adjunct Professor – ECE; Professor – EPP, CS; Technical Director – CyLab  adrian@ece.cmu.edu

Keywords
Information and systems security, focusing on network security (internet, mobile computing, and sensor networks) as well as on trusted computing.

Piazza, Gianluca  (Gian) Professor – ECE; Director – Nanofab  (412)-268-7762
Keywords

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

**Pileggi, Larry** Tanoto Professor – ECE (412)-268-6774

Keywords

Design, implementation and modeling of electronic integrated systems

**Platzer, Andre** Assistant Professor – CS, ECE (412)-268-1558

Keywords

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

**Rajkumar, Raj** Professor – ECE, CS; Co-Director – GM-CM CRL; Director – Real-Time and Multimedia Systems Laboratory (412)-268-8707

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

**Ricketts, David** Adjunct Professor – ECE

Keywords

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

**Rohrer, Ronald A.** Professor Emeritus – ECE

rohrer@ece.cmu.edu
Keywords
Electronic circuits, systems design automation

Rowe, Anthony  Associate  (412)-268-4856
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Keywords
Embedded systems, distributed systems, sensor networks

Rutenbar, Rob A.  Adjunct  rutenbar@ece.cmu.edu
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Keywords
VLSI CAD, algorithms, analog and digital circuits, automatic speech recognition

Salvador, Paul A.  Associate  (412)-268-2702
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Sankaranarayanan, Aswin  Assistant Professor – ECE  saswin@ece.cmu.edu

Satyanarayanan, Mahadev  Carnegie Professor – CS; Courtesy Professor – ECE  satya@cmu.edu

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

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Keywords
Semiconductor devices, information storage, optoelectronic systems

Schneider, Jeff  Research  jeff4@andrew.cmu.edu
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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

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

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

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Keywords

Power Systems Protection, Communication in Power Networks, Distributed Generation, Microgrids and Smartgrids

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