A

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

Amvrosiadis, George  Assistant
Research Professor – ECE

Andersen, David  Adjunct
Professor – ECE

Anna, Shelley L.  Associate
Professor – MechE; Affiliated
Faculty – DSSC

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

Balram, Nikhil  Adjunct Professor – ECE

Bauer, Lujo  Associate
Professor – ISR, ECE

Berges, Mario  Assistant
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

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

Balram, Nikhil  Adjunct Professor – ECE

Bauer, Lujo  Associate
Professor – ISR, ECE

Keywords

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

Beckmann, Nathan  Courtesy
Professor – ECE; Assistant
Professor – CSD

Berger, Luc  Professor
Emeritus – Physics; Affiliated
Faculty – DSSC

Berges, Mario  Assistant
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 Professor – ECE (412)-968-9110 rpb@ece.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 Professor – EPP, ECE +250 78 767 40 62 timxb@andrew.cmu.edu
Brumley, David J. Associate Professor – CSD; Director – CyLab; Professor – ECE (412)-268-3851 dbrumley@ece.cmu.edu
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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  Professor – ECE  schase@andrew.cmu.edu

Chen, Tsuhan  Adjunct  Professor – ECE  tsuhan@ece.cmu.edu

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

Christin, Nicolas  Associate Research Professor – EPP; Assistant Research Professor – CyLab; Courtesy  (412)-268-4432  nicolasc@andrew.cmu.edu

Keywords

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

Cranor, Lorrie F.  Professor – ISR, EPP; Courtesy  (412)-268-7534  lorrie@cs.cmu.edu

Keywords

Usable privacy and security

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**Keywords**

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

**E**

**F**

**Keywords**

Databases, data mining, multimedia indexing, performance evaluation

**Keywords**

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

Feenstra, Randy Professor – Physics; Courtesy Professor – ECE

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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

Fredrikson, Matt Assistant Professor – ISR, CS; Courtesy Professor – ECE

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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

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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Professor – ECE

Keywords

Tribology, nanomanufacturing, multi-scale particle flows

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Professor – ECE

Keywords

Research in wireless technology and telecommunications policy

Hoburg, James Emeritus  (412)-268-2473
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Keywords

Electromagnetics, electromechanics, electrohydrodynamics, microfluidics

Hoe, James C. Professor – ECE, CS; Co-Director – CALCM jhoe@cmu.edu

Keywords

Computer architecture, high-level hardware description and synthesis

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Professor – ECE

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

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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

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

performance analysis, cloud computing, machine learning

K

Kainerstorfer, Jana  Courtesy
Professor – ECE

Kanade, Takeo  U.A. and Helen Whitaker Professor – CS, RI; Courtesy Professor – ECE

Keywords

Computer vision, autonomous systems, medical robotics

Kar, Soummya  Associate
Professor – ECE

Keywords

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

Kavcic, Aleksandar  Adjunct
Faculty – ECE

Kelly, Shawn K.  Courtesy
Professor – ECE; Senior Systems Scientist – ICES

Khosla, Pradeep K.  Adjunct
Professor – ECE; Chancellor – University of California, San Diego
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

Kozuch, Michael A.
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Professor – ECE
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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

Kumar, Swarun S.  Assistant
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Lambeth, David N.  Professor
Emeritus – ECE

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  
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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

Marculescu, Radu  Kav{i}#-Moura Professor of Electrical & Computer Engineering – ECE  
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Keywords
Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.

Maxion, Roy  Research Professor – CS; Courtesy Professor – ECE  
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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
Mohimani, Hosein Courtesy Professor – ECE; Assistant Professor – CBD
Morgan, Granger Professor – ECE; Lord Professor – EPP

Keywords
Technology and policy including climate change and electric power

Morris, James Professor – CS; Courtesy Professor – ECE
Moura, Jose Associate Department Head - Research & Strategic Initiatives – ECE; Philip L. and Marsha Dowd University Professor – ECE, BME; Affiliated Faculty – DSSC

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

Mowry, Todd Professor – CS; Courtesy Professor – ECE; Co-Director – CALCM

Keywords
Computer architecture, compilers, operating systems, parallel processing

Moyar, Linda Assistant Teaching Professor – ECE, SDS
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

**Noh, Hae Young**
Assistant Professor – CEE; Courtesy Professor – ECE

Keywords

Scientific computing, parallel computing, computational database systems, and virtualization

**O’Hallaron, David**
Professor – CS, ECE; Director – Intel Research Pittsburgh

Keywords

Scientific computing, parallel computing, computational database systems, and virtualization
Ozdoganlar, O. Burak  Affiliated Faculty – DSSC; Associate Professor – MechE  (412)-268-9890  ozdoganlar@cmu.edu

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Püschel, Markus  Adjunct Professor – ECE  (412)-268-3804  pueschel@ece.cmu.edu

Keywords
Fast computing, algorithms, applied mathematics, and signal processing (theory, software, hardware)

Pandey, Manish  Adjunct Faculty – ECE  mpandey@andrew.cmu.edu

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Keywords
Analog, Mixed-signal and RF/millimeter-wave Integrated Circuit Design, Digitally-assisted analog/RF IC design

Parno, Bryan  Associate Professor – ECE, CSD  (412) 268-2033  parno@cmu.edu

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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.

**Keywords**

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

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**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

**Rajkumar, Raj**  
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CRL; Director – Real-Time and Multimedia Systems Laboratory

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**Keywords**

Embedded and real-time systems

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

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Keywords
Electronic circuits, systems design automation

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Keywords
Embedded systems, distributed systems, sensor networks

Rutenbar, Rob A. Adjunct Professor – ECE
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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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Semiconductor devices, information storage, optoelectronic systems

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

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

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

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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  Professor – MechE, RI; Courtesy Professor – ECE; Affiliated Professor – DSSC

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Keywords

Micro/nano-robotics, biologically inspired systems, nanotechnology, MEMS/NEMS

Skowronski, Marek  Courtesy Professor – ECE; Professor – MSE; Affiliated Professor – DSSC

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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
Steenkiste, Peter Professor – ECE, CS  (412)-268-3261

Keywords

Computer networks, distributed systems, pervasive computing
Stern, Richard Professor – ECE, LTI, CSD, BME; Lecturer – Music (412)-268-2535

Keywords

Automatic speech recognition, auditory perception, signal processing
Strojwas, Andrzej Keithley Professor – ECE (412)-268-3530

Keywords

Statistically based CAD/CAM of VLSI circuits
Sullivan, Tom Associate Teaching Professor – ECE; Lecturer – Music (412)-268-3351

Keywords

Audio signal processing, music and sound recording applications

T

Tague, Patrick Associate Research Professor – CyLab, INI, ECE (650)-335-2827

Keywords

Network security; Wireless networking
Talukdar, Sarosh Professor – ECE Emeritus – ECE (412)-268-8778

Keywords

Autonomous agents, distributed control, power systems, cascading failures
Tang, Xiaoying Adjunct Professor – ECE bxiaoyin@ece.cmu.edu

Keywords

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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

Towe, Elias Professor – ECE; Albert and Ethel Grobstein Memorial Professor – MSE; Director – CNXT (412)-268-8091 towe@cmu.edu

Keywords

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

V

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W

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Wasserman, Anthony Adjunct Professor – ECE (650)-335-2807 tonyw@cmu.edu

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Weldon, Jeffrey Adjunct Professor – ECE jaweldon@hawaii.edu
Keywords

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

**White, Robert M.** Emeritus University Professor – ECE, EPP; Affiliated Faculty – DSSC

**Keywords**

Magnetic nanotechnology

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**Keywords**

Wireless communications, network science, security, social networks, cyber-physical networks

**Ydstie, B.** Professor – ChemE; Courtesy Professor – ECE

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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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Computer networks, internet, resource management, multimedia

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Sensor Networks, Embedded Systems

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Keywords

Micromagnetics, magnetoelectronic devices, magnetic recording