A

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

Andersen, David, Adjunct
Professor – ECE

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

Antaki, James, Professor – BME; Courtesy
Professor – ECE

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

Keywords

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

Balram, Nikhil, Adjunct Professor – ECE

Bauer, Lujo, Associate
Professor – ECE, ISR

Keywords

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

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

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
Keywords

Distributed fault-tolerant computing and computer networks

Bishop, Cathy Instructor – ECE mcdbishop@andrew.cmu.edu
Blanton, Shawn Professor – ECE; Associate Director – JIE rblanton@andrew.cmu.edu

Keywords

Test and diagnosis of heterogeneous, integrated systems

Brown, Timothy X Distinguished Service timxb@andrew.cmu.edu
Professor – ECE, EPP
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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 lrc@ece.cmu.edu

Keywords

CAD and design of analog signal processing circuits and MEMS systems

Chamanzar, Maysam Assistant Professor – ECE mchamanz@andrew.cmu.edu

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

Choset, Howie Professor – RI; Courtesy Professor – ECE

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Keywords

Hyper-redundant mechanisms, coverage, car-painting, de-mining, mobile robots, motion planning, hybrid controls

Christin, Nicolas Assistant Research Professor – CyLab; Associate Research Professor – ECE

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Keywords

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

Clarke Jr., Edmund FORE Systems Professor – CS; Courtesy Professor – ECE

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Keywords

Hardware and software verification, automatic theorem proving, symbolic computation

Cranor, Lorrie F. Professor – ISR, EPP; Courtesy Professor – ECE

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Keywords

Usable privacy and security

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Professor – HCII; Courtesy Professor – ECE

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

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Professor – ECE

Faloutsos, Christos  Professor – CS; Courtesy Professor – ECE

Keywords
Databases, data mining, multimedia indexing, performance evaluation

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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

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

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Keywords

Automatic performance tuning, digital signal processing transforms, advanced architectures

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

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Keywords

Security, privacy, formal methods, and programming languages.

Gandhi, Rajeev, Courtesy Professor – ECE

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Keywords

Wireless systems, multimedia compression, signal processing/compression

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

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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
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Keywords
computer architecture, microprocessors, systems design

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Keywords
Power systems, optimization, control, energy networks, decomposition
Iannucci, Bob  
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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

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

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Keywords

Computer vision, autonomous systems, medical robotics

Kar, Soumya Associate Research Professor – ECE

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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

Kompalli, Suryaprakash Assistant Teaching Professor – ECE

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Koopman, Philip Associate Professor – ECE, CS
Keywords

distributed embedded systems, survivable system architecture, dependability

Kovačević, Jelena Hamerschlag
University Professor – ECE; University Professor – BME

Keywords

Signal processing, biomedical, wavelets, frames, multiresolution, communications

Kozuch, Michael A.
Adjunct Professor – ECE

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 Professor – ECE; Affiliated Faculty – DSSC

Keywords

Magnetic recording, optical recording and ferroelectric materials

Kumar, Swarun S.
Assistant Professor – 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** Assistant
Professor – JIE; Adjunct
Professor – ECE

**Li, Xin** Associate Professor – ECE

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

**Liu, Zhaojun** Assistant
Professor – JIE; Visiting
Professor – ECE

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

**Low, Tze Meng** Systems Scientist – ECE

**Lucia, Brandon** Assistant
Professor – ECE

**Mai, Ken** Principal Systems Scientist – ECE

**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, Radu** Professor – ECE
Keywords

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

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

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

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, José 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  (412)-268-3725
Professor – ECE; Co-Director – CALCM  tcm@cs.cmu.edu

Keywords

Computer architecture, compilers, operating systems, parallel processing

Moya, Linda  Affiliated Faculty – ECE  lhmoya@andrew.cmu.edu
Mukherjee, Tamal  Professor – ECE  (412)-268-8522
tamal@ece.cmu.edu

Keywords

Analog/RF/MEMS/biofluidic microsystem design

Mutlu, Onur  Adjunct Professor – ECE  onur@cmu.edu

Keywords

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

N

Nace, Bill  Associate Teaching Professor – ECE  (412)-268-7027
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Keywords

Digital Design, Embedded Systems, Networks

Narasimhan, Srinivasa  Associate Professor – RI; Courtesy Professor – ECE  412-268-1199
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Keywords

computational sensors, computer graphics, computer vision, image processing, optics

Narasimhan, Priya  Professor – ECE  (412)-268-8801
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Keywords

fault tolerance, distributed systems, embedded systems, mobile systems
Negi, Rohit  Professor – ECE; Affiliated Faculty – DSSC  (412)-268-6264  negi@ece.cmu.edu

Keywords

Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory

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

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

Péraire, Cécile  Assistant Teaching Professor – ECE

Püschel, Markus  Adjunct Professor – ECE

Keywords

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

Paramesh, Jeyanandh  Associate Professor – ECE

Parno, Bryan  Adjunct Professor – ECE

Pasareanu, Corina  Senior Research Scientist – ECE-SV

Pavlo, Andy  Courtesy Professor – ECE

Pasareanu, Corina  Senior Research Scientist – ECE-SV  (650)-604-4767  pcorina@andrew.cmu.edu

Pavlo, Andy  Courtesy Professor – ECE  pavlo@cs.cmu.edu
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Keywords

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

Perrig, Adrian  Adjunct  (412)-268-2242  adrian@ece.cmu.edu

Professor – ECE; Professor – EPP, CS; Technical Director – CyLab

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

Platzer, Andre  Assistant  (412)-268-1558  aplatzer@cs.cmu.edu

Keywords

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

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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

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
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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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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

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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

Sinopoli, Bruno  Associate Professor – ECE, RI, MechE  (412)-268-9432  brunos@ece.cmu.edu

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

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Keywords

Network security; Wireless networking

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Keywords

Autonomous agents, distributed control, power systems, cascading failures

Tang, Xiaoying Adjunct Professor – ECE; Assistant Professor – JIE

Thomas, Donald Professor Emeritus – ECE

Tonguz, Ozan Professor – ECE

Towe, Elias Professor – ECE; Albert and Ethel Grobstein Memorial Professor – MSE; Director – CNXT

Ustun, Taha Selim Assistant Teaching Professor – ECE

Veloso, Manuela Professor – CS; Courtesy Professor – ECE
Veríssimo, Paulo  
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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

Specification, verification, reliability, security, distributed systems, software engineering, programming languages

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

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

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Sensor Networks, Embedded Systems

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Computer networks, internet, resource management, multimedia

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Keywords

Micromagnetics, magnetoelectronic devices, magnetic recording