

[Agarwal , Yuvraj](#) Courtesy  
Professor – ECE; Assistant  
Professor – CS

[Andersen , David](#) Adjunct  
Professor – ECE

[Anna , Shelley L.](#) Associate  
Professor – MechE; Affiliated  
Faculty – DSSC

[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 – 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

## A

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[Bianchini , Ronald](#) Adjunct (412)-968-9110  
Professor – ECE [rpb@ece.cmu.edu](mailto:rpb@ece.cmu.edu)

**Keywords**

Distributed fault-tolerant computing and computer networks

[Bishop , Cathy](#)Instructor – ECE [mcbishop@andrew.cmu.edu](mailto:mcbishop@andrew.cmu.edu)

[Blanton , Shawn](#)Professor – ECE (412)-268-2987

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**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](mailto:timxb@andrew.cmu.edu)

[Brumley , David J.](#)Associate (412)-268-3851

Professor – CS; Director – CyLab; Professor – ECE [dbrumley@ece.cmu.edu](mailto:dbrumley@ece.cmu.edu)

[Bryant , Randal](#) (412)-268-8821

Professor – CS; Courtesy Professor – ECE [bryant@cs.cmu.edu](mailto:bryant@cs.cmu.edu)

**Keywords**

Formal hardware and software verification

**C**

[Carley , Kathleen](#) (412)-268-6016

Professor – ISR; Courtesy Professor – ECE [kathleen.carley@cs.cmu.edu](mailto:kathleen.carley@cs.cmu.edu)

[Carley , Rick](#) ST Microelectronics (412)-268-3597

Professor – ECE; Affiliated Faculty – DSSC [lrc@ece.cmu.edu](mailto:lrc@ece.cmu.edu)

**Keywords**

CAD and design of analog signal processing circuits and MEMS systems

[Carlisle , Martin](#) Teaching [mcarlisl@andrew.cmu.edu](mailto:mcarlisl@andrew.cmu.edu)

Professor – INI; Director of Academic Affairs – INI; Courtesy Professor – ECE

[Chamanzar , Maysam](#)Assistant 412-268-3390

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**Keywords**

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

[Chase , Steven](#) Courtesy  
Professor – ECE

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Professor – ECE

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#### Keywords

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

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Professor – ECE

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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  
Professor – ECE

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#### Keywords

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

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[Lorrie F.](#) Professor – ISR, EPP; Courtesy  
Professor – ECE

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#### Keywords

Usable privacy and security

## D

[Datta , Anupam](#) Associate  
Professor – CyLab, ECE

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[Davis , Robert](#) John and  
Claire Bertucci Distinguished  
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Professor – ECE

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Professor – ECE; Research

Scientist – RI

[Dey , Anind K.](#) Associate [anind@cs.cmu.edu](mailto:anind@cs.cmu.edu)

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Professor – ECE

[Dolan , John](#) Courtesy (412)-268-7988

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Scientist – RI

### Keywords

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

### E

[Eckhardt , Dave](#) Courtesy [davide+receptionist@cs.cmu.edu](mailto:davide+receptionist@cs.cmu.edu)

Professor – ECE; Assistant Teaching

Professor – CS

[Erdogmus , Hakan](#) Associate Teaching [hakan.erdogmus@sv.cmu.edu](mailto:hakan.erdogmus@sv.cmu.edu)

Professor – ECE

### F

[Faloutsos ,](#) (412)-268-1457

[Christos](#) Professor – CS; Courtesy [christos@cs.cmu.edu](mailto:christos@cs.cmu.edu)

Professor – ECE

### Keywords

Databases, data mining, multimedia indexing, performance evaluation

[Falsafi , Babak](#) Adjunct [babak.falsafi@epfl.ch](mailto:babak.falsafi@epfl.ch)

Professor – ECE, CS

### Keywords

Computer architecture, memory systems, multiprocessor architecture, architectural support for gigascale integration, design evaluation tools

[Fanti , Giulia](#) Assistant Professor – ECE [gfanti@andrew.cmu.edu](mailto:gfanti@andrew.cmu.edu)

[Fedder , Gary](#) Howard M. (412)-268-8443

Wilkoff Professor – ECE, RI; Co-Director – MEMS; Affiliated [fedder@ece.cmu.edu](mailto:fedder@ece.cmu.edu)

Faculty – DSSC

### Keywords

Microelectromechanical systems (MEMS), RF MEMS, inertial/bio/

chemical sensors, MEMS CAD, micro-robotics

[Feenstra](#),

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[Randy](#) Professor – Physics; Courtesy Professor – ECE

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#### Keywords

Molecular beam epitaxy, scanning tunneling microscopy

[Franchetti](#),

(412)-268-8297

[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

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#### Keywords

Security, privacy, formal methods, and programming languages.

## G

[Ganger](#), [Greg](#) Affiliated

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Faculty – CSD; Jatras

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Professor – ECE, CSD; Director – PDL

#### Keywords

cloud computing, storage/file systems, operating systems, distributed systems

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Professor – ECE; Affiliated  
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**Keywords**

Computer architecture, operating systems, file systems, disk arrays

[Gligor , Virgil](#) Professor – ECE; Co-Director – CyLab (412)-268-9833  
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[Goldstein , Seth](#) Associate Professor – CSD; Courtesy Professor – ECE (412)-268-3828  
[seth@cs.cmu.edu](mailto:seth@cs.cmu.edu)

**Keywords**

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

[Greve , David](#) Professor Emeritus – ECE (412)-268-3707  
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**Keywords**

Semiconductor device physics and semiconductor process technology, sensors

[Griss , Martin L.](#) Adjunct Professor – ECE (650)-335-2805  
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[Grover , Pulkit](#) Assistant Professor – ECE 412-268-3644  
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**H**

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**Keywords**

Scheduling of computer systems, workload characterization, heavy-tailed distributions

[Higgs III, Fred](#) Professor – MechE; Courtesy Professor – ECE (412)-268-2486  
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**Keywords**

Tribology, nanomanufacturing, multi-scale particle flows

[Hills , Alex](#) Distinguished Service Professor – EPP; Courtesy Professor – ECE (907)-232-6088  
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**Keywords**

Research in wireless technology and telecommunications policy

[Hoburg , James](#) Emeritus Faculty – ECE (412)-268-2473  
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**Keywords**

Electromagnetics, electromechanics, electrohydrodynamics, microfluidics

[Hoe , James C.](#) Professor – ECE, CS; Co-Director – CALCM (412)-268-4259  
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**Keywords**

Computer architecture, high-level hardware description and synthesis

[Hollis , Ralph L.](#) Research Professor – RI; Courtesy Professor – ECE (412)-268-8264  
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**Keywords**

Haptics, microassembly, dynamically stable mobile robots

[Hong , Jason](#) Courtesy Professor – ECE; Associate Professor – CS [jasonh@cs.cmu.edu](mailto:jasonh@cs.cmu.edu)

[Hug , Gabriela](#) Adjunct Faculty – ECE [ghug@ece.cmu.edu](mailto:ghug@ece.cmu.edu)

**Keywords**

power systems, optimization, control, energy networks, decomposition

I

[Iannucci , Bob](#) Director – CyLab Mobility Research Center; Distinguished Service Professor – ECE, Carnegie Mellon Silicon Valley (650) 714 1200  
[roberti@andrew.cmu.edu](mailto:roberti@andrew.cmu.edu)

## Keywords

Mobile and embedded computing, scalable systems, sensor networks, emergency communications systems

[Ilic, Jovan](#) Associate Teaching Professor – ECE (412)-268-3943  
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[Ilic, Marija](#) Professor Emeritus – ECE [milic@ece.cmu.edu](mailto:milic@ece.cmu.edu)

## Keywords

Large-scale systems modeling and simulation; power systems control and pricing algorithms; critical infrastructures/interdependencies

[Ishihara, Abe](#) Courtesy Professor – ECE [abe.ishihara@sv.cmu.edu](mailto:abe.ishihara@sv.cmu.edu)

## J

[Jackson, Collin](#) Adjunct Professor – ECE [collin.jackson@sv.cmu.edu](mailto:collin.jackson@sv.cmu.edu)

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[Jayan, B. Reeja](#) Courtesy Professor – ECE [bjayan@andrew.cmu.edu](mailto:bjayan@andrew.cmu.edu)

[Jhon, Myung S.](#) Professor – ChemE; Affiliated Faculty – DSSC (412)-268-2233  
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[Jia, Limin](#) Assistant Research Professor – CyLab, INI, ECE (412)-268-4605  
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## Keywords

Language-based security, programming languages, logic and program verification.

[Joe-Wong, Carlee](#) Assistant Professor – ECE 650-335-2832  
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## Keywords

Network economics and pricing, cloud computing, mobile/edge computing

[Johnson, Aaron](#) Courtesy Professor – ECE, RI; Assistant Professor – MechE [amj1@andrew.cmu.edu](mailto:amj1@andrew.cmu.edu)

[Jordan, Angel](#) Emeritus University Professor – ECE, RI (412)-268-2590  
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## Keywords

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

[Joshi , Gauri](#) Assistant Professor – ECE [gaurij@andrew.cmu.edu](mailto:gaurij@andrew.cmu.edu)

## Keywords

performance analysis, cloud computing, machine learning

## K

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[Kanade , Takeo](#) U.A. and Helen Whitaker Professor – CS, RI; Courtesy Professor – ECE

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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

[Kavcic , Aleksandar](#) Adjunct Faculty – ECE

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[Kelly , Shawn K.](#) Courtesy Professor – ECE; Senior Systems Scientist – ICES

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[Khosla , Pradeep K.](#) Adjunct Professor – ECE; Chancellor – University of California, San Diego

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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

[Kim , Hyong](#) Drew D. Perkins Professor – ECE

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### Keywords

Advanced switch and network architectures, fault-tolerant network architectures, network management and control

[Kitani , Kris](#) Courtesy

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Professor – ECE; Assistant Research Professor – RI

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[Koopman , Philip](#) Associate Professor – ECE, CS

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### Keywords

distributed embedded systems, survivable system architecture, dependability

[Kova#evi# , Jelena](#) Hamerschlag

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### Keywords

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

[Kozuch , Michael A.](#) Adjunct

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Professor – ECE

[Krogh , Bruce H.](#) 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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Professor – ECE; Affiliated Faculty – DSSC

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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

## L

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### Keywords

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

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Professor – ECE

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### Keywords

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

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### Keywords

Integrated circuits, computer-aided  
design

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## M

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### Keywords

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

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Faculty – DSSC

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[Maly , Wojciech](#) Professor  
Emeritus – ECE

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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](#) Professor – 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  
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Professor – CBD

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Professor – EPP

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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

[Mowry , Todd](#) Professor – CS; Courtesy Professor – ECE; Co-Director – CALCM (412)-268-3725  
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## Keywords

Computer architecture, compilers, operating systems, parallel processing

[Moya , Linda](#) Assistant Teaching Professor – ECE, SDS 412-268-8364  
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## Keywords

Analog/RF/MEMS/biofluidic microsystem design

[Mutlu , Onur](#) Adjunct Professor – ECE [onur@cmu.edu](mailto: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 , Priya](#) Professor – ECE (412)-268-8801

**Keywords**[priya@cs.cmu.edu](mailto:priya@cs.cmu.edu)

fault tolerance, distributed systems,  
embedded systems, mobile systems

[Narasimhan , Srinivasa](#) Associate  
Professor – RI; Courtesy  
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412-268-1199

[srinivas@andrew.cmu.edu](mailto:srinivas@andrew.cmu.edu)**Keywords**

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

[Negi , Rohit](#) Professor – ECE; Affiliated (412)-268-6264  
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[negi@ece.cmu.edu](mailto:negi@ece.cmu.edu)**Keywords**

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

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Research Pittsburgh

[droh@cs.cmu.edu](mailto:droh@cs.cmu.edu)**Keywords**

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

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[pueschel@ece.cmu.edu](mailto: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](mailto:mpandey@andrew.cmu.edu)

[Paramesh , Jeyanandh](#) Associate (412)-268-1290  
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**Keywords**

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

[Parno , Bryan](#) Associate (412) 268-2033  
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[Pasareanu , Corina](#) Senior Research (650)-604-4767  
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[Pavlo , Andy](#) Courtesy Professor – ECE [pavlo@cs.cmu.edu](mailto:pavlo@cs.cmu.edu)

[Peha , Jon](#) Professor – EPP; Courtesy (412)-268-7126  
Professor – ECE [peha@ece.cmu.edu](mailto:peha@ece.cmu.edu)

**Keywords**

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

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Director – CyLab

**Keywords**

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

[Piazza , Gianluca](#) (412)-268-7762  
(Gian) Professor – ECE; Director – Nanofab [piazza@ece.cmu.edu](mailto:piazza@ece.cmu.edu)

**Keywords**

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

[Pileggi , Larry](#) Tanoto Professor – ECE (412)-268-6774  
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**Keywords**

Design, implementation and modeling of electronic integrated systems

[Platzer , Andre](#) Assistant  
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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](#) Professor – ECE, CS; Co-Director – GM-CM CRL; Director – Real-Time and Multimedia Systems Laboratory

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**Keywords**

Embedded and real-time systems

[Ramakrishnan , Bhiksha Raj](#) Courtesy [bhiksha@cs.cmu.edu](mailto:bhiksha@cs.cmu.edu)  
Professor – ECE; Associate Professor – LTI

[Reddy , Raj](#) Courtesy [reddy@cs.cmu.edu](mailto:reddy@cs.cmu.edu)  
Professor – ECE; Mozah Bint Nasser University Professor – CS

[Ricketts , David](#) Adjunct [ricketts@ece.cmu.edu](mailto:ricketts@ece.cmu.edu)  
Professor – ECE

**Keywords**

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

[Rohrer , Ronald A.](#) Professor [rohrer@ece.cmu.edu](mailto:rohrer@ece.cmu.edu)  
Emeritus – ECE

**Keywords**

Electronic circuits, systems design automation

[Rowe , Anthony](#) Associate [agr@ece.cmu.edu](mailto:agr@ece.cmu.edu)  
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**Keywords**

Embedded systems, distributed systems, sensor networks

[Rutenbar , Rob A.](#) Adjunct [rutenbar@ece.cmu.edu](mailto:rutenbar@ece.cmu.edu)  
Professor – ECE



## Keywords

VLSI CAD, algorithms, analog and digital circuits, automatic speech recognition

[Salvador , Paul A.](#) Associate Professor – MSE; Affiliated Faculty – DSSC

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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 Professor – RI; Courtesy Professor – ECE

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[Sekar , Vyas](#) Assistant Professor – ECE [vsekar@ece.cmu.edu](mailto:vsekar@ece.cmu.edu)

## 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 [nihars@andrew.cmu.edu](mailto:nihars@andrew.cmu.edu)

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Professor – ECE

[Shen , John](#) Professor – ECE [jpshen@cmu.edu](mailto:jpshen@cmu.edu)

**Keywords**

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

[Siewiorek , Daniel](#) Buhl University (412)-268-2570

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**Keywords**

Computer architecture, reliability,  
context aware mobile computing

[Singh , Rita](#) Courtesy [rsingh@andrew.cmu.edu](mailto:rsingh@andrew.cmu.edu)

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Scientist – LTI

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**Keywords**

Networked embedded control systems,  
sensors/actuators networks, control  
theory

[Sirbu ,](#) (412)-268-3436

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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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Professor – ICES; Director – LINCS

**Keywords**

Mobile computing, computer architecture, system design methods, wearable computers

[Smola , Alex](#) Professor – MLD; Courtesy (408) 759-1044  
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Professor – RI

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Professor – ECE

**Keywords**

Wireless communications, nanophotonics, spin wave devices

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**Keywords**

Computer networks, distributed systems, pervasive computing

[Stern , Richard](#) (412)-268-2535  
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**Keywords**

Automatic speech recognition, auditory perception, signal processing

[Strojwas , Andrzej](#) Keithley (412)-268-3530  
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**Keywords**

Statistically based CAD/CAM of VLSI circuits

[Sullivan , Tom](#) Associate Teaching (412)-268-3351  
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## Keywords

Audio signal processing, music and sound recording applications

[Tague , Patrick](#) Associate Research Professor – CyLab, INI, ECE

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## Keywords

Network security; Wireless networking

[Talukdar , Sarosh](#) Professor Emeritus – ECE

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## Keywords

Autonomous agents, distributed control, power systems, cascading failures

[Tang , Xiaoying](#) Adjunct Professor – ECE

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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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## Keywords

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

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## Keywords

Magnetic nanotechnology

## X

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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