

[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

#### 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

## A

(412) 268-7328

[yuvraja@andrew.cmu.edu](mailto:yuvraja@andrew.cmu.edu)

[gamvrosi@andrew.cmu.edu](mailto:gamvrosi@andrew.cmu.edu)

[dga2@andrew.cmu.edu](mailto:dga2@andrew.cmu.edu)

(412)-268-6492

[sanna@andrew.cmu.edu](mailto:sanna@andrew.cmu.edu)

## B

(412)-268-3602

[jbain@ece.cmu.edu](mailto:jbain@ece.cmu.edu)

(412)-268-9745

[lbauer@cmu.edu](mailto:lbauer@cmu.edu)

[beckmann@cs.cmu.edu](mailto:beckmann@cs.cmu.edu)

(412)-268-2919

[lberger@andrew.cmu.edu](mailto:lberger@andrew.cmu.edu)

412-268-4572

[marioberges@cmu.edu](mailto:marioberges@cmu.edu)

(412)-268-3026

[kumar@ece.cmu.edu](mailto:kumar@ece.cmu.edu)

## Keywords

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

[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

[rblanton@andrew.cmu.edu](mailto: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](mailto:timxb@andrew.cmu.edu)

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

Professor – CSD; 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 Professor – ECE 412-268-3390

[mchamanz@andrew.cmu.edu](mailto:mchamanz@andrew.cmu.edu)

### Keywords

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

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

[schase@andrew.cmu.edu](mailto:schase@andrew.cmu.edu)

[Chen, Tsuhan](#) Adjunct  
Professor – ECE

[tsuhan@ece.cmu.edu](mailto:tsuhan@ece.cmu.edu)

### Keywords

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

[Chi, Yuejie](#) Associate Professor – ECE

[yuejiec@andrew.cmu.edu](mailto:yuejiec@andrew.cmu.edu)

[Choset,](#)

(412)-268-2495

[Howie](#) Professor – RI; Courtesy  
Professor – ECE

[choset@cs.cmu.edu](mailto:choset@cs.cmu.edu)

### 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

(412)-268-4432

[nicolasc@andrew.cmu.edu](mailto:nicolasc@andrew.cmu.edu)

### Keywords

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

[Cranor,](#)

(412)-268-7534

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

[lorrie@cs.cmu.edu](mailto:lorrie@cs.cmu.edu)

### Keywords

Usable privacy and security

## D

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

[danupam@andrew.cmu.edu](mailto:danupam@andrew.cmu.edu)

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

(412)-268-7264

Professor – MSE; Courtesy [rfd@andrew.cmu.edu](mailto:rfd@andrew.cmu.edu)

Professor – ECE

[De La Torre Frade , Fernando](#) Courtesy [ftorre@cs.cmu.edu](mailto:ftorre@cs.cmu.edu)

Professor – ECE; Research

Scientist – RI

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

Professor – HCII; Courtesy

Professor – ECE

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

Professor – ECE; Senior Systems [jmd@cs.cmu.edu](mailto:jmd@cs.cmu.edu)

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- [fedder@ece.cmu.edu](mailto:fedder@ece.cmu.edu)

Director – MEMS; Affiliated

Faculty – DSSC

### Keywords

Microelectromechanical systems (MEMS), RF MEMS, inertial/bio/chemical sensors, MEMS CAD, micro-robotics

[Feenstra ,](#)

(412)-268-6961

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

[feenstra@andrew.cmu.edu](mailto:feenstra@andrew.cmu.edu)

### Keywords

Molecular beam epitaxy, scanning tunneling microscopy

[Franchetti ,](#)

(412)-268-8297

[Franz](#) Professor – ECE; Faculty Director of ITS – ECE

[franzf@ece.cmu.edu](mailto:franzf@ece.cmu.edu)

### 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

(412) 268-3992

Professor – ISR, CS; Courtesy Professor – ECE

[mfredrik@andrew.cmu.edu](mailto:mfredrik@andrew.cmu.edu)

### Keywords

Security, privacy, formal methods, and programming languages.

## G

[Ganger , Greg](#) Affiliated

(412)-268-1297

Faculty – CSD; Jatras

[ganger@ece.cmu.edu](mailto:ganger@ece.cmu.edu)

Professor – ECE, CSD; Director – PDL

### Keywords

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

[Garba , Aminata](#) Assistant Teaching

+250 78 152 04 72

Professor – ECE

[aminata@ece.cmu.edu](mailto:aminata@ece.cmu.edu)

[Gellman , Andrew J.](#) Lord

(412)-268-3848

Professor – ChemE; Professor – Chemistry; Affiliated

[ag4b@andrew.cmu.edu](mailto:ag4b@andrew.cmu.edu)

Faculty – DSSC

[Ghose , Saugata](#) Systems  
Scientist – ECE

(412)-268-9192

[saugatag@andrew.cmu.edu](mailto:saugatag@andrew.cmu.edu)

[Gibbons , Phil](#) Professor – ECE

[pgibbons@andrew.cmu.edu](mailto:pgibbons@andrew.cmu.edu)

[Gibson ,](#)

(412)-268-5890

[Garth](#) Professor – CS; Courtesy  
Professor – ECE; Affiliated  
Faculty – DSSC

[garth@cs.cmu.edu](mailto:garth@cs.cmu.edu)

#### Keywords

Computer architecture, operating  
systems, file systems, disk arrays

[Gkioulekas , Ioannis](#) Courtesy  
Professor – ECE; Assistant  
Professor – RI

[igkioule@andrew.cmu.edu](mailto:igkioule@andrew.cmu.edu)

[Gligor , Virgil](#) Professor – ECE; Co-  
Director – CyLab

(412)-268-9833

[virgil@andrew.cmu.edu](mailto:virgil@andrew.cmu.edu)

[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

[dg07@andrew.cmu.edu](mailto:dg07@andrew.cmu.edu)

#### Keywords

Semiconductor device physics and  
semiconductor process technology,  
sensors

[Griss , Martin L.](#) Adjunct  
Professor – ECE

(650)-335-2805

[martin.griss@west.cmu.edu](mailto:martin.griss@west.cmu.edu)

[Grover , Pulkit](#) Assistant  
Professor – ECE

412-268-3644

[pgrover@ece.cmu.edu](mailto:pgrover@ece.cmu.edu)

## H

[Harchol-Balter , Mor](#) Associate  
Professor – CS; Courtesy  
Professor – ECE

(412)-268-7893

[harchol@andrew.cmu.edu](mailto:harchol@andrew.cmu.edu)

**Keywords**

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

[He, Bin](#) Courtesy [bhe1@andrew.cmu.edu](mailto:bhe1@andrew.cmu.edu)

Professor – ECE; Professor – BME; Department  
Head – BME

[Higgs III,](#) (412)-268-2486

[Fred](#) Professor – MechE; Courtesy [higgs@andrew.cmu.edu](mailto:higgs@andrew.cmu.edu)  
Professor – ECE

**Keywords**

Tribology, nanomanufacturing, multi-  
scale particle flows

[Hills, Alex](#) Distinguished Service (907)-232-6088

Professor – EPP; Courtesy [ahills@cmu.edu](mailto:ahills@cmu.edu)  
Professor – ECE

**Keywords**

Research in wireless technology and  
telecommunications policy

[Hoburg, James](#) Emeritus (412)-268-2473

Faculty – ECE [hoburg@ece.cmu.edu](mailto:hoburg@ece.cmu.edu)

**Keywords**

Electromagnetics, electromechanics,  
electrohydrodynamics, microfluidics

[Hoe,](#) (412)-268-4259

[James C.](#) Professor – ECE, CS; Co-  
Director – CALCM [jhoe@cmu.edu](mailto:jhoe@cmu.edu)

**Keywords**

Computer architecture, high-level  
hardware description and synthesis

[Hollis, Ralph L.](#) Research (412)-268-8264

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

**Keywords**

Haptics, microassembly, dynamically  
stable mobile robots

[Hong, Jason](#) Courtesy [jasonh@cs.cmu.edu](mailto:jasonh@cs.cmu.edu)

Professor – ECE; Associate  
Professor – CS

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

**Keywords**

power systems, optimization, control,  
energy networks, decomposition

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

**J**

[Jahanian , Farnam](#) Vice President  
for Research – CMU; Courtesy  
Professor – ECE [\(412\) 268-3363](mailto:farnam@andrew.cmu.edu)  
[farnam@andrew.cmu.edu](mailto:farnam@andrew.cmu.edu)

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

[Jhon ,  
Myung S.](#) Professor – ChemE; Affiliated  
Faculty – DSSC [\(412\)-268-2233](mailto:mj3a@andrew.cmu.edu)  
[mj3a@andrew.cmu.edu](mailto:mj3a@andrew.cmu.edu)

[Jia , Limin](#) Assistant Research  
Professor – CyLab, INI, ECE [\(412\)-268-4605](mailto:liminjia@andrew.cmu.edu)  
[liminjia@andrew.cmu.edu](mailto:liminjia@andrew.cmu.edu)

**Keywords**

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

[Joe-Wong , Carlee](#) Assistant  
Professor – ECE [650-335-2832](mailto:cjoewong@andrew.cmu.edu)  
[cjoewong@andrew.cmu.edu](mailto:cjoewong@andrew.cmu.edu)



### Keywords

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

[Johnson , Aaron](#) Courtesy [amj1@andrew.cmu.edu](mailto:amj1@andrew.cmu.edu)

Professor – ECE, RI; Assistant Professor – MechE

[Jordan , Angel](#) Emeritus University (412)-268-2590

Professor – ECE, RI [ajordan@cs.cmu.edu](mailto:ajordan@cs.cmu.edu)

### 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

[Kainerstorfer , Jana](#) Courtesy [jkainers@andrew.cmu.edu](mailto:jkainers@andrew.cmu.edu)

Professor – ECE

[Kanade , Takeo](#) U.A. and Helen (412)-268-3016

Whitaker Professor – CS, RI; Courtesy Professor – ECE [tk@cs.cmu.edu](mailto:tk@cs.cmu.edu)

### Keywords

Computer vision, autonomous systems, medical robotics

[Kar , Soumya](#) Associate (412)-268-8962

Professor – ECE [soumyak@andrew.cmu.edu](mailto:soumyak@andrew.cmu.edu)

### Keywords

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

[Kavcic , Aleksandar](#) Adjunct [akavcic@andrew.cmu.edu](mailto:akavcic@andrew.cmu.edu)

Faculty – ECE

[Kelly , Shawn K.](#) Courtesy [skkelly@andrew.cmu.edu](mailto:skkelly@andrew.cmu.edu)

Professor – ECE; Senior Systems Scientist – ICES

[Khosla , Pradeep K.](#) Adjunct [pkk@ece.cmu.edu](mailto:pkk@ece.cmu.edu)

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

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

(412)-268-6491

[kim@ece.cmu.edu](mailto:kim@ece.cmu.edu)

### Keywords

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

[Kitani , Kris](#) Courtesy  
Professor – ECE; Assistant Research  
Professor – RI

[kmitani@andrew.cmu.edu](mailto:kmitani@andrew.cmu.edu)

[Kompalli , Suryaprakash](#) Assistant  
Teaching Professor – ECE

+250 78 484 08 55

[skompall@andrew.cmu.edu](mailto:skompall@andrew.cmu.edu)

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

(412)-268-5225

[koopman@cmu.edu](mailto:koopman@cmu.edu)

### Keywords

distributed embedded systems, survivable system architecture, dependability

[Kova#evi# , Jelena](#) Hamerschlag  
University Professor – ECE; University  
Professor – BME

(412) 268-3299

[jelenak@cmu.edu](mailto:jelenak@cmu.edu)

### Keywords

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

[Kozuch , Michael A.](#) Adjunct  
Professor – ECE

[mkozuch@andrew.cmu.edu](mailto:mkozuch@andrew.cmu.edu)

[Krogh , Bruce H.](#) Professor – ECE

(412)-268-2472

[krogh@ece.cmu.edu](mailto:krogh@ece.cmu.edu)

### 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 (412)-268-3513  
[kryder@ece.cmu.edu](mailto:kryder@ece.cmu.edu)

**Keywords**

Magnetic recording, optical recording  
and ferroelectric materials

[Kumar , Swarun S.](#) Assistant  
Professor – ECE 412-268-1892  
[swarun@cmu.edu](mailto:swarun@cmu.edu)

**L**

[Lambeth , David N.](#) Professor  
Emeritus – ECE (412)-268-3674  
[lambeth@ece.cmu.edu](mailto:lambeth@ece.cmu.edu)

**Keywords**

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

[Lane , Ian R.](#) Associate Research  
Professor – ECE [ianlane@cs.cmu.edu](mailto:ianlane@cs.cmu.edu)

[Laughlin , David](#) ALCOA  
Professor – MSE; Courtesy  
Professor – ECE; Affiliated  
Faculty – DSSC (412)-268-2706  
[dl0p@andrew.cmu.edu](mailto:dl0p@andrew.cmu.edu)

**Keywords**

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

[Li , Ming](#) Adjunct Professor – ECE [mingli1@andrew.cmu.edu](mailto:mingli1@andrew.cmu.edu)  
[Li , Xin](#) Adjunct Faculty – ECE (412)-268-6507  
[xinli@ece.cmu.edu](mailto:xinli@ece.cmu.edu)

**Keywords**

Integrated circuits, computer-aided  
design

[Lohn , Jason D.](#) Adjunct Faculty – ECE (650)-335-2802  
[jason.lohn@sv.cmu.edu](mailto:jason.lohn@sv.cmu.edu)

[Low , Tze Meng](#) Assistant Research  
Professor – ECE (412) 268-6756  
[lowt@andrew.cmu.edu](mailto:lowt@andrew.cmu.edu)

[Lucia , Brandon](#) Assistant  
Professor – ECE (412) 268-3587  
[blucia@ece.cmu.edu](mailto:blucia@ece.cmu.edu)

**M**

[Mai , Ken](#) Principal Systems  
Scientist – ECE (412)-268-8335  
[kenmai@ece.cmu.edu](mailto:kenmai@ece.cmu.edu)

### Keywords

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

[Majetich ,](#)

(412)-268-3105

[Sara A.](#) Professor – Physics; Courtesy Professor – ECE; Affiliated Faculty – DSSC

[sm70@andrew.cmu.edu](mailto:sm70@andrew.cmu.edu)

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

(412)-268-6637

[maly@ece.cmu.edu](mailto:maly@ece.cmu.edu)

### Keywords

Computer-aided design and manufacturing of VLSICs

[Marculescu , Diana](#) David Edward Schramm Professor – ECE; Associate Department Head for Academic Affairs – ECE

(412)-268-1167

[dianam@ece.cmu.edu](mailto:dianam@ece.cmu.edu)

### Keywords

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

[Marculescu , Radu](#) Kav#i#-Moura Professor of Electrical & Computer Engineering – ECE

(412)-268-8710

[radum@ece.cmu.edu](mailto:radum@ece.cmu.edu)

### Keywords

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

[Maxion , Roy](#) Research Professor – CS; Courtesy Professor – ECE

(412)-268-7556

[maxion@cs.cmu.edu](mailto:maxion@cs.cmu.edu)

### Keywords

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

[McHenry ,](#)

(412)-268-2703

[Michael E.](#) Professor – MSE; Affiliated Faculty – DSSC

[mm7g@andrew.cmu.edu](mailto:mm7g@andrew.cmu.edu)

[Mengshoel , Ole](#) Principal Systems Scientist – ECE

[ole.mengshoel@sv.cmu.edu](mailto:ole.mengshoel@sv.cmu.edu)

[Miskov-Zivanov , Natasa](#) Adjunct Faculty – ECE (412)-268-9873  
[nmiskov@andrew.cmu.edu](mailto:nmiskov@andrew.cmu.edu)  
[Mohimani , Hosein](#) Courtesy Professor – ECE; Assistant Professor – CBD [hoseinm@andrew.cmu.edu](mailto:hoseinm@andrew.cmu.edu)  
[Morgan , Granger](#) Professor – ECE; Lord Professor – EPP (412)-268-2672  
[gm5d@andrew.cmu.edu](mailto:gm5d@andrew.cmu.edu)

**Keywords**

Technology and policy including climate change and electric power

[Morris , James](#) Professor – CS; Courtesy Professor – ECE (412)-609-5000  
[james.morris@sv.cmu.edu](mailto:james.morris@sv.cmu.edu)  
[Moura , José](#) Associate Department Head - Research & Strategic Initiatives – ECE; Philip L. and Marsha Dowd University Professor – ECE, BME; Affiliated Faculty – DSSC (412)-268-6341  
[moura@ece.cmu.edu](mailto:moura@ece.cmu.edu)

**Keywords**

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

[Mowry , Todd](#) Professor – CS; Courtesy Professor – ECE; Co-Director – CALCM (412)-268-3725  
[tcm@cs.cmu.edu](mailto:tcm@cs.cmu.edu)

**Keywords**

Computer architecture, compilers, operating systems, parallel processing

[Moya , Linda](#) Assistant Teaching Professor – ECE, SDS 412-268-8364  
[lhmoya@andrew.cmu.edu](mailto:lhmoya@andrew.cmu.edu)  
[Mukherjee , Tamal](#) Professor – ECE (412)-268-8522  
[tamal@ece.cmu.edu](mailto:tamal@ece.cmu.edu)

**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

[Nace , Bill](#) Associate Teaching  
Professor – ECE

## N

(412)-268-7027  
[wnace@cmu.edu](mailto:wnace@cmu.edu)

## Keywords

Digital Design, Embedded Systems,  
Networks

[Narasimhan , Priya](#) Professor – ECE

(412)-268-8801  
[priya@cs.cmu.edu](mailto:priya@cs.cmu.edu)

## Keywords

fault tolerance, distributed systems,  
embedded systems, mobile systems

[Narasimhan , Srinivasa](#) Associate  
Professor – RI; Courtesy  
Professor – ECE

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  
Faculty – DSSC

(412)-268-6264  
[negi@ece.cmu.edu](mailto: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

[noh@cmu.edu](mailto:noh@cmu.edu)

## O

[O'Hallaron ,  
David](#) Professor – CS, ECE; Director – Intel  
Research Pittsburgh

(412)-268-8199  
[droh@cs.cmu.edu](mailto:droh@cs.cmu.edu)

## Keywords

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

[Ozdoganlar , O. Burak](#) Affiliated (412)-268-9890  
Faculty – DSSC; Associate [ozdoganlar@cmu.edu](mailto:ozdoganlar@cmu.edu)  
Professor – MechE

## P

[Péraire , Cécile](#) Associate Teaching [cecile.peraire@sv.cmu.edu](mailto:cecile.peraire@sv.cmu.edu)  
Professor – ECE

[Püschel , Markus](#) Adjunct (412)-268-3804  
Professor – ECE [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  
Professor – ECE [paramesh@ece.cmu.edu](mailto:paramesh@ece.cmu.edu)

### Keywords

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

[Parno , Bryan](#) Associate (412) 268-2033  
Professor – ECE, CSD [parno@cmu.edu](mailto:parno@cmu.edu)

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

[Pavlo , Andy](#) Courtesy Professor – ECE [pavlo@cs.cmu.edu](mailto:pavlo@cs.cmu.edu)

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

### Keywords

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

[Perrig , Adrian](#) Adjunct (412)-268-2242  
Professor – ECE; Professor – EPP, CS; Technical [adrian@ece.cmu.edu](mailto:adrian@ece.cmu.edu)  
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  
[pileggi@ece.cmu.edu](mailto:pileggi@ece.cmu.edu)

**Keywords**

Design, implementation and modeling of electronic integrated systems

[Platzer, Andre](#) Assistant Professor – CSD; Associate Professor – ECE (412)-268-1558  
[aplatzer@cs.cmu.edu](mailto:aplatzer@cs.cmu.edu)

**Keywords**

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

**R**

[Rajkumar, Raj](#) (412)-268-8707  
Professor – ECE, CSD; Co-Director – GM-CM  
CRL; Director – Real-Time and Multimedia Systems Laboratory  
[raj@ece.cmu.edu](mailto:raj@ece.cmu.edu)

**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 Professor – ECE  
[ricketts@ece.cmu.edu](mailto:ricketts@ece.cmu.edu)



### Keywords

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

[Rohrer, Ronald A.](#) Professor Emeritus – ECE

[rohrer@ece.cmu.edu](mailto:rohrer@ece.cmu.edu)

### Keywords

Electronic circuits, systems design automation

[Rowe, Anthony](#) Associate Professor – ECE

(412)-268-4856

[agr@ece.cmu.edu](mailto:agr@ece.cmu.edu)

### Keywords

Embedded systems, distributed systems, sensor networks

[Rutenbar, Rob A.](#) Adjunct Professor – ECE

[rutenbar@ece.cmu.edu](mailto:rutenbar@ece.cmu.edu)

### Keywords

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

## S

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

(412)-268-2702

[paul7@andrew.cmu.edu](mailto:paul7@andrew.cmu.edu)

[Sankaranarayanan, Aswin](#) Assistant Professor – ECE

(412)-268-1087

[saswin@ece.cmu.edu](mailto:saswin@ece.cmu.edu)

[Satyanarayanan, Mahadev](#) Carnegie Professor – CS; Courtesy Professor – ECE

(412)-268-3743

[satya@cmu.edu](mailto:satya@cmu.edu)

[Savvides, Marios](#) Research Professor – ECE; Director – CyLab Biometrics Center

(412)-268-1142

[marioss@andrew.cmu.edu](mailto:marioss@andrew.cmu.edu)

### Keywords

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

[Schlesinger, T.E. \(Ed\)](#) Adjunct Professor – ECE

[ed@ece.cmu.edu](mailto:ed@ece.cmu.edu)

### Keywords

Semiconductor devices, information storage, optoelectronic systems

[Schneider, Jeff](#) Research [jeff4@andrew.cmu.edu](mailto:jeff4@andrew.cmu.edu)

Professor – RI; Courtesy

Professor – ECE

[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

[Seshan, Srinivasan](#) Associate (412)-268-8734

Professor – CS; Courtesy [srini@cmu.edu](mailto:srini@cmu.edu)

Professor – ECE

### Keywords

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

[Shah, Nihar](#) Assistant [nihars@andrew.cmu.edu](mailto:nihars@andrew.cmu.edu)

Professor – MLD, CSD; Courtesy

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

Professor – HCII, ECE, CSD [dps@ece.cmu.edu](mailto:dps@ece.cmu.edu)

### Keywords

Computer architecture, reliability, context aware mobile computing

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

Professor – ECE; Senior Systems

Scientist – LTI

[Sinopoli, Bruno](#) (412)-268-9432

Professor – MechE, ECE, RI [brunos@ece.cmu.edu](mailto:brunos@ece.cmu.edu)

### Keywords

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

[Sirbu ,](#)

(412)-268-3436

[Marvin](#) Professor – EPP; Courtesy  
Professor – ECE

[sirbu@cmu.edu](mailto:sirbu@cmu.edu)

### Keywords

Telecommunications policy and  
economics

[Sitti ,](#)

(412)-268-3632

[Metin](#) Professor – MechE, RI; Courtesy  
Professor – ECE; Affiliated  
Faculty – DSSC

[sitti@cmu.edu](mailto:sitti@cmu.edu)

### Keywords

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

[Skowronski , Marek](#) Courtesy

(412)-268-2710

Professor – ECE; Professor – MSE; Affiliated  
Faculty – DSSC

[mss@andrew.cmu.edu](mailto:mss@andrew.cmu.edu)

[Smailagic , Asim](#) Courtesy

(412)-268-7863

Professor – ECE; Research  
Professor – ICES; Director – LINCS

[asim@ices.cmu.edu](mailto:asim@ices.cmu.edu)

### Keywords

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

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

Professor – ECE

[smola@andrew.cmu.edu](mailto:smola@andrew.cmu.edu)

[Sokalski , Vincent](#) Assistant

(412)-268-8628

Research Professor – MSE; Affiliated  
Faculty – DSSC

[vsokalsk@andrew.cmu.edu](mailto:vsokalsk@andrew.cmu.edu)

[Song , Dawn](#) Adjunct Professor – ECE

[xds@andrew.cmu.edu](mailto:xds@andrew.cmu.edu)

[Sreenath , Koushil](#) Courtesy

[koushils@andrew.cmu.edu](mailto:koushils@andrew.cmu.edu)

Professor – ECE; Assistant  
Professor – RI

[Stancil , Daniel](#) Adjunct

[ddstancil@ncsu.edu](mailto:ddstancil@ncsu.edu)

Professor – ECE

**Keywords**

Wireless communications,  
nanophotonics, spin wave devices

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

[prs@cs.cmu.edu](mailto:prs@cs.cmu.edu)

**Keywords**

Computer networks, distributed  
systems, pervasive computing

[Stern ,  
Richard](#) Professor – ECE, LTI, CSD, BME; Lecturer – Music  
(412)-268-2535  
[tms@ece.cmu.edu](mailto:tms@ece.cmu.edu)

**Keywords**

Automatic speech recognition, auditory  
perception, signal processing

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

Professor – ECE

[ajs@ece.cmu.edu](mailto:ajs@ece.cmu.edu)

**Keywords**

Statistically based CAD/CAM of VLSI  
circuits

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

Professor – ECE; Lecturer – Music

[tms@ece.cmu.edu](mailto:tms@ece.cmu.edu)

**Keywords**

Audio signal processing, music and  
sound recording applications

**T**

[Tague , Patrick](#) Associate Research (650)-335-2827

Professor – CyLab, INI, ECE

[patrick.tague@sv.cmu.edu](mailto:patrick.tague@sv.cmu.edu)

**Keywords**

Network security; Wireless networking

[Talukdar , Sarosh](#) Professor (412)-268-8778

Emeritus – ECE

[talukdar@ece.cmu.edu](mailto:talukdar@ece.cmu.edu)

**Keywords**

Autonomous agents, distributed control,  
power systems, cascading failures

[Tang , Xiaoyin](#) Adjunct [txiaoyin@ece.cmu.edu](mailto:txiaoyin@ece.cmu.edu)

Professor – ECE

[Taylor , Rebecca](#) Assistant [bex@andrew.cmu.edu](mailto:bex@andrew.cmu.edu)

Professor – MechE; Courtesy

Professor – ECE

[Tayur , Sridhar](#) Courtesy  
Professor – ECE; Professor – Tepper 412-268-3584  
[stayur@andrew.cmu.edu](mailto:stayur@andrew.cmu.edu)  
[Thomas , Donald](#) Professor  
Emeritus – ECE (412)-268-3545  
[thomas@ece.cmu.edu](mailto:thomas@ece.cmu.edu)

**Keywords**

Computer-aided design of single  
chip heterogeneous multiprocessing  
systems

[Tonguz , Ozan](#) Professor – ECE (412)-268-5991  
[tonguz@ece.cmu.edu](mailto:tonguz@ece.cmu.edu)

**Keywords**

Optical networks, wireless networks and  
communications systems, and high-  
speed networking

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

**Keywords**

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

**V**

[Veloso ,](#) [mmv@cs.cmu.edu](mailto:mmv@cs.cmu.edu)

[Manuela](#) Professor – CS; Courtesy  
Professor – ECE

[Verissimo , Paulo](#) Adjunct [pjv@di.fc.ul.pt](mailto:pjv@di.fc.ul.pt)  
Professor – ECE

[Vernon , David](#) Teaching Faculty – ECE +250 78 592 74 70  
[vernon@cmu.edu](mailto:vernon@cmu.edu)

[Vinayak , Rashmi](#) Assistant  
Professor – CSD; Courtesy [rvinayak@cs.cmu.edu](mailto:rvinayak@cs.cmu.edu)  
Professor – ECE

**W**

[Wang , Kai](#) Adjunct Professor – ECE [wangkai@andrew.cmu.edu](mailto:wangkai@andrew.cmu.edu)

[Wasserman , Anthony](#) Adjunct (650)-335-2807  
Professor – ECE [tonyw@cmu.edu](mailto:tonyw@cmu.edu)

[Weiss , Lee](#) Courtesy [lew@andrew.cmu.edu](mailto:lew@andrew.cmu.edu)  
Professor – ECE; Research

Professor – RI

[Weldon , Jeffrey](#) Adjunct [jaweldon@hawaii.edu](mailto:jaweldon@hawaii.edu)  
Professor – ECE

## 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 [white@ece.cmu.edu](mailto:white@ece.cmu.edu)

## Keywords

Magnetic nanotechnology

## X

[Xu , Yinliang](#) Adjunct Professor – ECE [danielxu@andrew.cmu.edu](mailto:danielxu@andrew.cmu.edu)

## Y

[Yagan , Osman](#) Assistant Research Professor – ECE (412) 268-3976 [oyagan@ece.cmu.edu](mailto:oyagan@ece.cmu.edu)

## Keywords

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

[Ydstie , B.](#) Professor – ChemE; Courtesy Professor – ECE (412)-268-2235 [ydstie@andrew.cmu.edu](mailto:ydstie@andrew.cmu.edu)

[Ye , Terry](#) Adjunct Professor – ECE (412) 268-5401 [terryye@ece.cmu.edu](mailto:terryye@ece.cmu.edu)

[Yu , Byron](#) Associate Professor – ECE; Assistant Professor – BME (412)-268-9658 [byronyu@cmu.edu](mailto:byronyu@cmu.edu)

## Keywords

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

[Yu , Zhiyi](#) Adjunct Professor – ECE [zhiyiyu@andrew.cmu.edu](mailto:zhiyiyu@andrew.cmu.edu)

## Keywords

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

## Z

[Zhang , Hui](#) Professor – CS; Courtesy Professor – ECE (412)-268-8945 [h Zhang@cs.cmu.edu](mailto:h Zhang@cs.cmu.edu)

**Keywords**

Computer networks, internet, resource management, multimedia

[Zhang, Jia](#) Associate Teaching Professor – ECE [jia.zhang@sv.cmu.edu](mailto:jia.zhang@sv.cmu.edu)

[Zhang, Joy](#) Adjunct Professor – ECE (650)-335-2824  
[joy@cs.cmu.edu](mailto:joy@cs.cmu.edu)

[Zhang, Pei](#) Associate Research Professor – ECE (650)-335-2823  
[peizhang@cmu.edu](mailto:peizhang@cmu.edu)

**Keywords**

Sensor Networks, Embedded Systems

[Zhu, Jimmy](#) ABB (412)-268-8373  
Professor – ECE; Professor – MSE, Physics; Director – DSSC  
[jzhu@ece.cmu.edu](mailto:jzhu@ece.cmu.edu)

**Keywords**

Micromagnetics, magnetoelectronic devices, magnetic recording