Agarwal, Yuvraj  Courtesy  Professor – ECE; Assistant Professor – CS  (412) 268-7328  yuvraja@andrew.cmu.edu

Alacce, John Systems  Administrator – ECE  (412)-268-6649  jalacce@ece.cmu.edu

Alvarez, Renee  Senior Administrative Assistant – ECE

Ambrass, Charlotte  Director of Finance and Sponsored Research – ECE  (412)-268-6858  ambrass@ece.cmu.edu

Amos, Rachel  Manager of Undergraduate Advising – ECE  (412) 268-3666  ramos2@andrew.cmu.edu

Amvrosiadis, George  Assistant Research Professor – ECE  gamvrosi@andrew.cmu.edu

Andersen, David  Adjunct Professor – ECE  dga2@andrew.cmu.edu

Anna, Shelley L. Associate Professor – MechE; Affiliated Faculty – DSSC  (412)-268-6492  sanna@andrew.cmu.edu

Ausavarungnirun, Rachata  Post Doctoral Research Associate – ECE  rausavar@andrew.cmu.edu

Bain, Jim  Professor – ECE, MSE; Associate Director – DSSC  (412)-268-3602  jbain@ece.cmu.edu

Keywords

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

Balram, Nikhil  Adjunct Professor – ECE

Bandola, Judy  Administrative Coordinator – ECE  (412)-268-2224  judy@ece.cmu.edu

Bauer, Lujo  Associate Professor – ISR, ECE  (412)-268-9745  lbauer@cmu.edu

Keywords

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

Bauerle, Claire E.  Administrative Coordinator – ECE  (412)-268-7422  cbauerle@ece.cmu.edu

Beckmann, Nathan  Courtesy Professor – ECE; Assistant Professor – CSD  beckmann@cs.cmu.edu
Berger, Luc  Professor Emeritus – Physics; Affiliated Faculty – DSSC  (412)-268-2919  lberger@andrew.cmu.edu

Berges, Mario  Assistant Professor – CEE; Courtesy Professor – ECE  412-268-4572  marioberges@cmu.edu

Bhagavatula, Vijayakumar  U.A. and Helen Whitaker Professor – ECE; Affiliated Faculty – DSSC; Associate Dean of Faculty and Graduate Affairs – CIT  (412)-268-3026  kumar@ece.cmu.edu

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

Bintrim, Grace  Administrative Coordinator – ECE  (412) 268-9192  gbintrim@andrew.cmu.edu

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

Bollapragada, Vara  Post Doctoral Research Associate – ECE  sbollapr@ece.cmu.edu

Boni, Dante  Equipment Technician – Nanofab  (412)-268-2234  dboni@andrew.cmu.edu

Bosle, Kevin  Senior Buyer – ECE  (412)-268-9642  kbosle@ece.cmu.edu

Brown, Timothy X  Distinguished Service Professor – EPP, ECE  +250 78 767 40 62  timxb@andrew.cmu.edu

Brumley, David J  Associate Professor – CS; Director – CyLab; Professor – ECE  (412)-268-3851  dbrumley@ece.cmu.edu

Bryant, Randal  Professor – CS; Courtesy Professor – ECE  (412)-268-8821  bryant@cs.cmu.edu

Keywords

Formal hardware and software verification
Burns, Krista  Communications  (412)-268-5316  kgregan@ece.cmu.edu
Manager – ECE

Carley, Kathleen  Professor – ISR; Courtesy Professor – ECE  kathleen.carley@cs.cmu.edu
(412)-268-6016

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

Keywords
CAD and design of analog signal processing circuits and MEMS systems

Carlisle, Martin  Teaching  mcarlis@andrew.cmu.edu
Professor – INI; Director of Academic Affairs – INI; Courtesy Professor – ECE

Caruso, Stephanie  Academic Program  stephaniec@cmu.edu
Advisor – ECE

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

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

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

Chomas, Louis  Research  lchomas@andrew.cmu.edu
Associate – DSSC; Cleanroom/MEMS Engineer – ECE

Choset, Howie  Professor – RI; Courtesy Professor – ECE  (412)-268-2495  choset@cs.cmu.edu

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

Chraska, Jacqueline  Administrative Coordinator – ECE  chraska@ece.cmu.edu  (412)-268-3096
Christin, Nicolas Associate Research Professor – EPP; Assistant Research Professor – CyLab; Courtesy Professor – ECE

Keywords

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

Chung, Pil Seung Post Doctoral Research Associate – ChemE, DSSC

Keywords

Usable privacy and security

Datta, Anupam Associate Professor – CyLab, ECE

Davis, Robert John and Claire Bertucci Distinguished Professor – MSE; Courtesy Professor – ECE

Decker, Dave Manager of Web Development Services – ECE

De La Torre Frade, Fernando Courtesy Professor – ECE; Research Scientist – RI

Dey, Anind K. Associate Professor – HCII; Courtesy Professor – ECE

Dolan, John Courtesy Professor – ECE; Senior Systems Scientist – RI
Keywords

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

Du, Jian Post Doctoral Research Associate – ECE
(412)-268-3052
jiand@andrew.cmu.edu

Eckhardt, Dave Courtesy Professor – ECE; Assistant Teaching Professor – CS
davide+receptionist@cs.cmu.edu

Elgersma, Steve Senior Systems & Software Engineer – ECE
(412)-268-9531
elgersma@ece.cmu.edu

Erdogmus, Hakan Associate Teaching Professor – ECE
hakan.erdogmus@sv.cmu.edu

Ervin, Allison Administrative Coordinator – ECE
412-268-5859
aervin@andrew.cmu.edu

Faloutsos, Christos Professor – CS; Courtesy Professor – ECE
(412)-268-1457
christos@cs.cmu.edu

Fanti, Giulia Assistant Professor – ECE
gfanti@andrew.cmu.edu

Fassinger, Dan P. IT Manager – ECE
(412)-268-4745
danfas@ece.cmu.edu

Fedder, Gary Howard M. Wilkoff Professor – ECE, RI; Co-Director – MEMS; Affiliated Faculty – DSSC
(412)-268-8443
fedder@ece.cmu.edu
Keywords

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

**Feenstra, Randy** Professor – Physics; Courtesy Professor – ECE

(412)-268-6961 feenstra@andrew.cmu.edu

Keywords

Molecular beam epitaxy, scanning tunneling microscopy

**Ferris, Sherri** Administrative Coordinator – ECE

(412) 268-4632 sferris@andrew.cmu.edu

**Fox, Toni** Sponsored Research Assistant – CyLab

(412) 268-1657 tonif@andrew.cmu.edu

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

(412)-268-8297 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 Professor – ISR, CS; Courtesy Professor – ECE

(412) 268-3992 mfredrik@andrew.cmu.edu

Keywords

Security, privacy, formal methods, and programming languages.

**Frost, Brittany** Senior Sponsored Research Assistant – CyLab

412-268-1212 bfredrik@andrew.cmu.edu

**Frost, Donna** International Scholar Coordinator – ECE

412-268-3407 dfrost@andrew.cmu.edu

**Furuta, Masaki** Post Doctoral Research Associate – ECE

mfuruta@ece.cmu.edu

G

**Gamble, Andrew** Laboratory Electronics Supervisor – DSSC

(412)-268-1110 jgamble@ece.cmu.edu
Ganger, Greg  Affiliated  
Faculty – CSD; Jatras  
Professor – ECE, CSD; Director – PDL  
(412)-268-1297  
ganger@ece.cmu.edu

Keywords

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

Garba, Aminata  Assistant Teaching  
Professor – ECE  
+250 78 152 04 72  
aminata@ece.cmu.edu

Geiger, Kristen  Senior Research  
Administrator – ECE  
(412) 268-3836  
ksgeiger@andrew.cmu.edu

Gellman, Andrew J. Lord  
Professor – ChemE; Professor – Chemistry; Affiliated  
Faculty – DSSC

Ghose, Saugata  Systems Scientist – ECE  
(412)-268-9192  
saugatag@andrew.cmu.edu

Gibbons, Phil  Professor – ECE  
pgibbons@andrew.cmu.edu

Gibson, Garth  Professor – CS; Courtesy  
Professor – ECE; Affiliated Faculty – DSSC  
garth@cs.cmu.edu

Keywords

Computer architecture, operating systems, file systems, disk arrays

Gligor, Virgil  Professor – ECE; Co-Director – CyLab  
(412)-268-9833  
virgil@andrew.cmu.edu

Goldstein, Seth  Associate  
Professor – CSD; Courtesy  
Professor – ECE  
(412)-268-3828  
seth@cs.cmu.edu

Keywords

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

Gottron, Norman  Process Engineer – Nanofab  
(412)-268-4205  
ngottron@andrew.cmu.edu

Greenfield, Anissa  Manager, Sponsored Research Administration – ECE  
(412)-268-3114  
admyers@ece.cmu.edu

Greve, David  Professor Emeritus – ECE  
(412)-268-3707  
dg07@andrew.cmu.edu

Keywords

Semiconductor device physics and semiconductor process technology, sensors
Grieco, Patricia L. Administrative Manager – DSSC  
(412)-268-6429  
pg1q@andrew.cmu.edu

Griss, Martin L. Adjunct Professor – ECE  
(650)-335-2805  
martin.griss@west.cmu.edu

Grover, Pulkit Assistant Professor – ECE  
412-268-3644  
pgrover@ece.cmu.edu

Grupe, Alan Senior Facilities Manager – ECE  
(412)-268-2526  
alan@ece.cmu.edu

Harchol-Balter, Mor Associate Professor – CS; Courtesy Professor – ECE  
(412)-268-7893  
harchol@andrew.cmu.edu

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

Harding, Meighan Senior Director of Operations – ECE  
(412)-268-8924  
meighan.harding@ece.cmu.edu

Higgs III, Fred Professor – MechE; Courtesy Professor – ECE  
(412)-268-2486  
higgs@andrew.cmu.edu

Keywords
Tribology, nanomanufacturing, multi-scale particle flows

Hills, Alex Distinguished Service Professor – EPP; Courtesy Professor – ECE  
(907)-232-6088  
ahills@cmu.edu

Keywords
Research in wireless technology and telecommunications policy

Hilton, Chad Senior Systems & Software Engineer – ECE  
(412)-268-6037  
chilton@andrew.cmu.edu

Hoburg, James Emeritus Faculty – ECE  
(412)-268-2473  
hoburg@ece.cmu.edu

Keywords
Electromagnetics, electromechanics, electrohydrodynamics, microfluidics

Hoe, James C. Professor – ECE, CS; Co-Director – CALCM  
(412)-268-4259  
jhoe@cmu.edu
Keywords

Computer architecture, high-level hardware description and synthesis

Hollis, Ralph L. Research Professor – RI; Courtesy Professor – ECE (412)-268-8264 rhollis@cs.cmu.edu

Keywords

Haptics, microassembly, dynamically stable mobile robots

Hong, Jason Courtesy Professor – ECE; Associate Professor – CS jasonh@cs.cmu.edu

Keywords

power systems, optimization, control, energy networks, decomposition

Iannucci, Bob Director – CyLab Mobility Research Center; Distinguished Service Professor – ECE, Carnegie Mellon Silicon Valley (650) 714 1200 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 jilic@ece.cmu.edu

Ilic, Marija Professor Emeritus – ECE 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

Keywords

Jackson, Collin Adjunct Professor – ECE collin.jackson@sv.cmu.edu

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

Jayan, B. Reeja Courtesy Professor – ECE bjayan@andrew.cmu.edu
Jhon, Myung S. Professor – ChemE; Affiliated Faculty – DSSC
(412)-268-2233 mj3a@andrew.cmu.edu

Jia, Limin Assistant Research Professor – CyLab, INI, ECE
(412)-268-4605 liminjia@andrew.cmu.edu

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

Joe-Wong, Carlee Assistant Professor – ECE
650-335-2832 cjoewong@andrew.cmu.edu

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

Johnson, Aaron Courtesy Professor – ECE, RI; Assistant Professor – MechE
amj1@andrew.cmu.edu

Jordan, Angel Emeritus University Professor – ECE, RI
(412)-268-2590 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

Keywords
performance analysis, cloud computing, machine learning

K

Kainerstorfer, Jana Courtesy Professor – ECE
jkainers@andrew.cmu.edu

Kanade, Takeo U.A. and Helen Whitaker Professor – CS, RI; Courtesy Professor – ECE
(412)-268-3016 tk@cs.cmu.edu

Keywords
Computer vision, autonomous systems, medical robotics

Kar, Soummya Associate Professor – ECE (412)-268-8962 soummyak@andrew.cmu.edu
Keywords
Distributed Information Processing, Multi-Agent Decision Making, Adaptive Stochastic Systems

Kass, Leona Director of Student and Academic Affairs – ECE (412)-268-2496 lkass@andrew.cmu.edu

Kavcic, Aleksandar Adjunct Faculty – ECE akavcic@andrew.cmu.edu

Kelly, Shawn K. Courtesy Professor – ECE; Senior Systems Scientist – ICES skkelly@andrew.cmu.edu

Khosla, Pradeep K. Adjunct Professor – ECE; Chancellor – University of California, San Diego pkk@ece.cmu.edu

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

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

Kimukin, Ibrahim Research Associate – ECE (412)-268-9013 ikimukin@andrew.cmu.edu

Kitani, Kris Courtesy Professor – ECE; Assistant Research Professor – RI kmkitani@andrew.cmu.edu

Knickerbocker, Kara Administrative Coordinator – ECE (412)-268-2389 krk@andrew.cmu.edu

Kochhar, Abhay Research Scientist – ECE (412)-268-8013 askochha@andrew.cmu.edu

Koeske, Matt Research Administrator – ECE (412)-268-7293 koeske@ece.cmu.edu

Kompalli, Suryaprakash Assistant Teaching Professor – ECE skompall@andrew.cmu.edu

Koopman, Philip Associate Professor – ECE, CS (412)-268-5225 koopman@cmu.edu
Keywords

distributed embedded systems, survivable system architecture, dependability

Kovačević, Jelena Hamerschlag  (412) 268-3299
University Professor – ECE; University Professor – BME  jelenak@cmu.edu

Keywords

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

Kozuch, Michael A.  mkozuch@andrew.cmu.edu
Adjunct Professor – ECE

Krogh, Bruce H.  krogh@ece.cmu.edu
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  kryder@ece.cmu.edu
Emeritus University Professor – ECE; Affiliated Faculty – DSSC

Keywords

Magnetic recording, optical recording and ferroelectric materials

Kumar, Swarun S.  swarun@cmu.edu
412-268-1892
Assistant Professor – ECE

Kurpiewski, Matthew  mkurp@andrew.cmu.edu
Systems Administrator – ECE

Keywords

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

Lane, Ian R.  ianlane@cs.cmu.edu
Associate Research Professor – ECE

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

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

Leathers, Diana  Administrative Coordinator – ECE  650-335-2824
diana.leathers@sv.cmu.edu

Lehman, Philip  ECE/SCS Office of Engagement and Annual Giving – ECE pll@andrew.cmu.edu

Li, Ming  Adjunct Professor – ECE mingli1@andrew.cmu.edu

Li, Xin  Adjunct Faculty – ECE  (412)-268-6507
xinli@ece.cmu.edu

Keywords

Integrated circuits, computer-aided design

Lindenfelser, Karen  Administrative Manager – PDL; Administrative Coordinator – ECE (412)-268-6716
karen@ece.cmu.edu

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

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

Lu, Canyi  Post Doctoral Research Associate – ECE canyil@andrew.cmu.edu

Lucia, Brandon  Assistant Professor – ECE  (412) 268-3587
blucia@ece.cmu.edu

Lynch, Aydaen  Principal Systems and Software Engineer – ECE  (412)-268-5818
alynch@ece.cmu.edu

Mahouski, Michelle  Academic Services Coordinator – ECE  (412)-268-4951
mmahousk@andrew.cmu.edu

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

Keywords

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

Majetich, Sara A.  Professor – Physics; Courtesy Professor – ECE; Affiliated Faculty – DSSC sm70@andrew.cmu.edu

Maly, Wojciech  Professor Emeritus – ECE  (412)-268-6637
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

Keywords

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

Marculescu, Radu Professor – ECE
(412)-268-8710
radum@ece.cmu.edu

Keywords

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

Mattingly, Chloe Administrative Coordinator – DSSC, ECE
(412)-268-2650
chloem@andrew.cmu.edu

Maxion, Roy Research Professor – CS; Courtesy Professor – ECE
(412)-268-7556
maxion@cs.cmu.edu

Keywords

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

McCarthy, Jillian M.S. Academic Program Advisor – ECE
(412) 268-3077
jrmccart@andrew.cmu.edu

McHenry, Michael E. Professor – MSE; Affiliated Faculty – DSSC
(412)-268-2703
mm7g@andrew.cmu.edu

McKinney, Jim IT Manager – ECE
(412)-268-5141
jmck@ece.cmu.edu

Mehdizadeh, Emad Post Doctoral Research Associate – ECE
emehdiza@ece.cmu.edu

Mengshoel, Ole Principal Systems Scientist – ECE
ole.mengshoel@sv.cmu.edu

Metcalf, David Senior Linux Engineer – ECE
dmetcalf@andrew.cmu.edu

Miskov-Zivanov, Natasa Adjunct Faculty – ECE
nmiskov@andrew.cmu.edu

Moe, Tara Director of Graduate Affairs – ECE
(412)-268-6327
taramoe@ece.cmu.edu
Mohimani, Hosein  Courtesy  Professor – ECE; Assistant Professor – CBD  hoseinm@andrew.cmu.edu

Moneck, Matthew  Executive  Manager, ECE Nanofabrication Facility – Nanofab; Research Scientist – DSSC  mmoneck@andrew.cmu.edu

Morchower, Bari  Student Organizations and Activities Advisor – ECE  bmorchow@andrew.cmu.edu

Morgan, Granger  Professor – ECE; Lord Professor – EPP  gm5d@andrew.cmu.edu

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

Moutis, Panayiotis  Post Doctoral Research Associate – ECE  pmoutis@andrew.cmu.edu

Mowry, Todd  Professor – CS; Courtesy Professor – ECE; Co-Director – CALCM  tcm@cs.cmu.edu

Mukherjee, Tamal  Professor – ECE  tamal@ece.cmu.edu

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

Keywords

Technology and policy including climate change and electric power

Morgan, Granger  Professor – ECE; Lord Professor – EPP  gm5d@andrew.cmu.edu

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

Moutis, Panayiotis  Post Doctoral Research Associate – ECE  pmoutis@andrew.cmu.edu

Mowry, Todd  Professor – CS; Courtesy Professor – ECE; Co-Director – CALCM  tcm@cs.cmu.edu

Mukherjee, Tamal  Professor – ECE  tamal@ece.cmu.edu

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

Keywords
Keywords

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

N

Nace, Bill  
Associate Teaching Professor – ECE
(412)-268-7027
wnace@cmu.edu

Keywords

Digital Design, Embedded Systems, Networks

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

Keywords

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

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

Nguyen, Kimmy  
Event and Project Coordinator – ECE
(412) 268-7138
myn@andrew.cmu.edu

Noel, Margaret  
Associate Director of Alumni Relations and Annual Giving – ECE
412-268-7202
mnoel@andrew.cmu.edu

Noh, Hae Young  
Assistant Professor – CEE; Courtesy Professor – ECE
noh@cmu.edu

O

O'Hallaron, David  
Professor – CS, ECE; Director – Intel Research Pittsburgh
(412)-268-8199
droh@cs.cmu.edu
Keywords

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

Oliver, Megan Academic Services 412-268-5621
Coordinator – ECE mvoliver@andrew.cmu.edu

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

Ozdoganlar, Neslihan M.S. Academic (412)-268-6581
Program Advisor – ECE neslio@andrew.cmu.edu

Péraire, Cécile Assistant Teaching pereaile@sv.cmu.edu
Professor – ECE

Püschel, Markus Adjunct Professor – ECE (412)-268-3804

Keywords

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

Pagliarini, Samuel Senior Research spagiar@ece.cmu.edu
Scientist – ECE

Palko, Adam P. Finance and Research (412)-268-2188
Administrator – ECE apalko@ece.cmu.edu

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

Paramesh, Jeyanandh Associate (412)-268-1290
Professor – ECE 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

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

Patterson, Carolyn Administrative (412)-268-7286
Coordinator – ECE carol@ece.cmu.edu

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

Peha, Jon Professor – EPP; Courtesy Professor – ECE (412)-268-7126
peha@ece.cmu.edu
Keywords

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

Perrig, Adrian Adjunct Professor – ECE; Professor – EPP, CS; Technical Director – CyLab
(412)-268-2242
adrian@ece.cmu.edu

Keywords

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

Phelps, Shelley Finance and Business Associate – ECE
(412) 268-8745
sphelps@andrew.cmu.edu

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

Keywords

Design, implementation and modeling of electronic integrated systems

Pileggi, Leah Professional Writer – ECE; Professional Assistant – ECE
leahp1@andrew.cmu.edu

Platzer, Andre Assistant Professor – CS, ECE
(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

Prelich-Knight, Lyz Academic Services Coordinator – ECE
(412)-268-5087
lyz@ece.cmu.edu
**Racko, Angela** Finance and Business Associate – ECE

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

**Keywords**

Embedded and real-time systems

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**Ramakrishnan, Bhiksha Raj** Courtesy Professor – ECE; Associate Professor – LTI

**Keywords**

Embedded and real-time systems

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**Ramsey, Erika** Temporary Employee Services - Finance and Business Associate – ECE

**Keywords**

Embedded and real-time systems

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**Reddy, Raj** Courtesy Professor – ECE; Mozah Bint Nasser University Professor – CS

**Keywords**

Embedded and real-time systems

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**Rengarajan, Vijay** Post Doctoral Research Associate – ECE

**Keywords**

Embedded and real-time systems

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**Reyes, Brittany** Academic Services and Student Organizations Coordinator – ECE

**Keywords**

Electronic circuits, systems design automation

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**Ricketts, David** Adjunct Professor – ECE

**Keywords**

Electronic circuits, systems design automation

---

**Rutenbar, Rob A.** Adjunct Professor – ECE

**Keywords**

Embedded systems, distributed systems, sensor networks
Keywords

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

S

Caruso, Stephanie Academic Program Advisor – ECE

Salvador, Paul A. Associate Professor – MSE; Affiliated Faculty – DSSC

Sankaranarayanan, Aswin Assistant Professor – ECE

Santhanam, Suresh Principal Process Engineer – ECE

Satyanarayanan, Mahadev Carnegie Professor – CS; Courtesy Professor – ECE

Savvides, Marios Research Professor – ECE; Director – CyLab Biometrics Center

Keywords

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

Schlesinger, T.E. (Ed) Adjunct Professor – ECE

Keywords

Semiconductor devices, information storage, optoelectronic systems

Schneider, Jeff Research Professor – RI; Courtesy Professor – ECE

Sekar, Vyas Assistant Professor – ECE

Keywords

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

Seshan, Srinivasan Associate Professor – CS; Courtesy Professor – ECE

Keywords

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

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

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

nihars@andrew.cmu.edu

**Shen, John** Professor – ECE

jpshen@cmu.edu

Keywords

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

**Siewiorek, Daniel** Buhl University (412)-268-2570

Professor – HClI, ECE, CSD
dps@ece.cmu.edu

Keywords

Computer architecture, reliability, context aware mobile computing

**Singh, Rita** Courtesy Professor – ECE; Senior Systems Scientist – LTI

rsingh@andrew.cmu.edu

Keywords

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

**Sirbu, Marvin** Professor – EPP; Courtesy Professor – ECE (412)-268-3436

sirbu@cmu.edu

Keywords

Telecommunications policy and economics

**Sitti, Metin** Professor – MechE, RI; Courtesy Professor – ECE; Affiliated Faculty – DSSC (412)-268-3632

sitti@cmu.edu

Keywords

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

**Skovira, Holly** Senior Administrative Coordinator – ECE (412) 268-8162

hskovira@andrew.cmu.edu
Skowronski, Marek  Courtesy Professor – ECE; Professor – MSE; Affiliated Faculty – DSSC (412)-268-2710 m3s@andrew.cmu.edu

Smailagic, Asim  Courtesy Professor – ECE; Research Professor – ICES; Director – LINCS (412)-268-7863 asim@ices.cmu.edu

Smith Jr., Robert E  Senior Windows Systems Engineer – ECE (412)-268-6033 robsmith@cmu.edu

Smitley, Brandon  Linux Engineer – ECE 412-268-5716 bsmitley@andrew.cmu.edu

Smola, Alex  Professor – MLD; Courtesy Professor – ECE (408) 759-1044 smola@andrew.cmu.edu

Snizaski, Nathan  Ph.D. Academic Program Advisor – ECE 412-268-3200 nsnizask@andrew.cmu.edu

Sokalski, Vincent  Assistant Research Professor – MSE; Affiliated Faculty – DSSC (412)-268-8628 vsokalsk@andrew.cmu.edu

Song, Dawn  Adjunct Professor – ECE xds@andrew.cmu.edu

Sreenath, Koushil  Courtesy Professor – ECE; Assistant Professor – RI koushils@andrew.cmu.edu

Stancil, Daniel  Adjunct Professor – ECE ddstancil@ncsu.edu

Keywords

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

Steenkiste, Peter  Professor – ECE, CS (412)-268-3261 prs@cs.cmu.edu

Keywords

Computer networks, distributed systems, pervasive computing

Stevens, Dave  Facilities Assistant – ECE 412-268-2470 daves@andrew.cmu.edu
Stevenson, Kayleigh  Finance and Business Associate – ECE  (412)-268-8745  kayleigh@ece.cmu.edu

Strojwas, Andrzej  Keithley Professor – ECE  (412)-268-3530  ajs@ece.cmu.edu

Keywords

Statistically based CAD/CAM of VLSI circuits

Sullivan, Tom  Associate Teaching Professor – ECE; Lecturer – Music  (412)-268-3351  tms@ece.cmu.edu

Keywords

Audio signal processing, music and sound recording applications

Sundar, Vignesh  Post Doctoral Research Associate – DSSC  vigneshs@andrew.cmu.edu

Tague, Patrick  Associate Research Professor – CyLab, INI, ECE  (650)-335-2827  patrick.tague@sv.cmu.edu

Keywords

Network security; Wireless networking

Talukdar, Sarosh  Professor Emeritus – ECE  (412)-268-8778  talukdar@ece.cmu.edu

Keywords

Autonomous agents, distributed control, power systems, cascading failures

Tang, Xiaoying  Adjunct Professor – ECE  txiaoyin@ece.cmu.edu

Tayur, Sridhar  Courtesy Professor – ECE; Professor – Tepper  stayur@andrew.cmu.edu

Thomas, Donald  Professor Emeritus – ECE  (412)-268-3545  thomas@ece.cmu.edu

Keywords

Computer-aided design of single chip heterogeneous multiprocessing systems

Tims, Joshua  Systems Administrator – ECE  (412)-268-5888  jtims@ece.cmu.edu

Tomko, Jessica  Admissions Coordinator – ECE  (412)-268-4786  jtomko@andrew.cmu.edu

Tonguz, Ozan  Professor – ECE  (412)-268-5991  tonguz@ece.cmu.edu
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

Keywords

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

Ustun, Taha Selim Assistant Teaching Professor – ECE

Keywords

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

Veloso, Manuela Professor – CS; Courtesy Professor – ECE

Verissimo, Paulo Adjunct Professor – ECE

Veras, Richard Post Doctoral Research Associate – ECE

Vernon, David Teaching Faculty – ECE

Wang, Kai Adjunct Professor – ECE

Wasserman, Anthony Adjunct Professor – ECE

Weiler, Mark Equipment Manager, Nanofabrication Facility – ECE

Weiss, Lee Courtesy Professor – ECE; Research Professor – RI

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

Keywords

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

Wen, Tianlong  Post Doctoral Research Associate – Physics, DSSC

White, Robert M  Emeritus University Professor – ECE, EPP; Affiliated Faculty – DSSC  white@ece.cmu.edu

Keywords

Magnetic nanotechnology

Will, Regis  Senior Systems Engineer – ECE  rwill@andrew.cmu.edu

Woodhead, Vickie  Undergraduate Advisor – ECE  woodhead@ece.cmu.edu

Xu, Yinliang  Adjunct Professor – ECE  danielxu@andrew.cmu.edu

Yagan, Osman  Assistant Research Professor – ECE  oyagan@ece.cmu.edu

Keywords

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

Ydstie, B. Erik  Professor – ChemE; Courtesy Professor – ECE  ydstie@andrew.cmu.edu

Ye, Terry  Adjunct Professor – ECE  terryye@ece.cmu.edu

Yichye, Shahar  Cleanroom Construction Protocol Manager – ECE  syichye@andrew.cmu.edu

Yu, Byron  Associate Professor – ECE; Assistant Professor – BME  byronyu@cmu.edu

Keywords

Neural signal processing, machine learning approaches in neuroscience, neural prosthetic systems
Yu, Zhiyi Adjunct Professor – ECE  
Keywords
Multi-core processors, Network-on-chip, Digital VLSI  

Z

Zhang, Hui Professor – CS; Courtesy Professor – ECE  (412)-268-8945  
Keywords
Computer networks, internet, resource management, multimedia

Zhang, Jia Associate Teaching Professor – ECE  

Zhang, Joy Adjunct Professor – ECE  (650)-335-2824  
Keywords

Zhang, Pei Associate Research Professor – ECE  (650)-335-2823  

Zhu, Jimmy ABB Professor – ECE; Professor – MSE, Physics; Director – DSSC  (412)-268-8373  
Keywords
Micromagnetics, magnetoelectronic devices, magnetic recording

Ziccardi, Chad Principal Systems Engineer – ECE  (412)-268-4453  

Zurcher, Elaine Systems Administrator – ECE  (412)-268-1210  