**A**

**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 RCALVARE@andrew.cmu.edu

**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

**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

**Atwell, Niccole** Senior Associate Director of Engagement and Annual Giving – ECE (412) 268-8858 atwell@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  Manager – ECE  (412)-268-5316  kgregan@ece.cmu.edu

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

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

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

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

Chamanzar, Maysam  Assistant Professor – ECE  412-268-3390  mchamanz@andrew.cmu.edu

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

Chase, Steven  Courtesy Professor – ECE  schase@andrew.cmu.edu

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

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

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

Chomas, Louis  Research Associate – DSSC; Cleanroom/MEMS Engineer – ECE  (412)-855-9077  lchomas@andrew.cmu.edu

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  (412)-268-3096  chraska@ece.cmu.edu

Christin, Nicolas  Associate Research Professor – EPP; Assistant Research  (412)-268-4432  nicolasc@andrew.cmu.edu
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
(412)-268-4035
pil@cmu.edu

Clarke Jr., Edmund FORE Systems
Professor – CS; Courtesy Professor – ECE
(412)-268-2628
edmund.clarke@cs.cmu.edu

Chung , Pil Seung Post Doctoral Research
Associate – ChemE, DSSC
(412)-268-4035
pil@cmu.edu

Clarke Jr., Edmund FORE Systems
Professor – CS; Courtesy Professor – ECE
(412)-268-2628
edmund.clarke@cs.cmu.edu

Keywords

Hardware and software verification, automatic theorem proving, symbolic computation

Cominos, Lenna Corporate
Relations – ECE
(412)-268-7689
cominos@andrew.cmu.edu

Condees , Filip Post Doctoral Research
Associate – ECE
(412)-268-3729
fcordes@andrew.cmu.edu

Conley, Kelley Research
Administrator – ECE
(412)-268-3299
kelleyc@andrew.cmu.edu

Copetas, Catherine ECE/SCS Office of Engagement and Annual Giving – ECE
(412)-268-7534
copetas@andrew.cmu.edu

Contessa, Catherine ECE/SCS Office of Engagement and Annual Giving – ECE
(412)-268-3299
ccopetas@andrew.cmu.edu

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

Keywords

Usable privacy and security

D

Datta, Anupam Associate
Professor – CyLab, ECE
danupam@andrew.cmu.edu

Davis, Robert John and Claire Bertucci
Distinguished Professor – MSE; Courtesy Professor – ECE
(412)-268-7264
rfd@andrew.cmu.edu

Decker, Dave Manager of Web Development Services – ECE
(412)-268-8157
ddecker@andrew.cmu.edu

De La Torre Frade, Fernando Courtesy Professor – ECE; Research Scientist – RI
ftorre@cs.cmu.edu
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  

Eckhardt, Dave Courtesy Professor – ECE; Assistant Teaching Professor – CS  
Elgersma, Steve Senior Systems & Software Engineer – ECE  

Erdogmus, Hakan Associate Teaching Professor – ECE  

Faloutsos, Christos Professor – CS; Courtesy Professor – ECE  

Keywords  
Databases, data mining, multimedia indexing, performance evaluation  

Falsafi, Babak Adjunct Professor – ECE, CS  

Fanti, Giulia Assistant Professor – ECE  

Fassinger, Dan P. IT Manager – ECE  

Fatahalian, Kayvon Courtesy Professor – ECE; Assistant Professor – CS  

Fedder, Gary Howard M. Wilkoff Professor – ECE, RI; Co-
Keywords

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

Feenstra, Randy Professor – Physics; Courtesy Professor – ECE  
Keywords  
Molecular beam epitaxy, scanning tunneling microscopy

Ferris, Sherri Administrative Coordinator – ECE  
Fox, Toni Sponsored Research Assistant – CyLab  
Franchetti, Franz Professor – ECE; Faculty Director of ITS – ECE  
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  
Keywords  
Security, privacy, formal methods, and programming languages.

Frost, Brittany Senior Sponsored Research Assistant – CyLab  
Frost, Donna International Scholar Coordinator – ECE  
Furuta, Masaki Post Doctoral Research Associate – ECE
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

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 (412)-268-3848 ag4b@andrew.cmu.edu

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

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

Gibson, Garth Professor – CS; Courtesy Professor – ECE; Affiliated Faculty – DSSC (412)-268-5890 garth@cs.cmu.edu

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

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

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

Garba, Aminata Assistant Teaching Professor – ECE

Geiger, Kristen Senior Research Administrator – ECE

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

Ghose, Saugata Systems Scientist – ECE

Gibbons, Phil Professor – ECE

Gibson, Garth Professor – CS; Courtesy Professor – ECE; Affiliated Faculty – DSSC

Gligor, Virgil Professor – ECE; Co-Director – CyLab

Goldstein, Seth Associate Professor – CSD; Courtesy Professor – ECE

Gottron, Norman Process Engineer – Nanofab

Greenfield, Anissa Manager, Sponsored Research Administration – ECE

Greve, David Professor Emeritus – ECE

Keywords

Computer architecture, operating systems, file systems, disk arrays

Gligor, Virgil Professor – ECE; Co-Director – CyLab

Goldstein, Seth Associate Professor – CSD; Courtesy Professor – ECE

Gottron, Norman Process Engineer – Nanofab

Greenfield, Anissa Manager, Sponsored Research Administration – ECE

Greve, David Professor Emeritus – ECE
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

Jackson, Collin Adjunct Professor – ECE
collin.jackson@sv.cmu.edu
Jahanian, Farnam  Vice President  (412) 268-3363
for Research – CMU; Courtesy  farnam@andrew.cmu.edu
Professor – ECE
Jayan, B. Reeja  Courtesy  bjayan@andrew.cmu.edu
Professor – ECE
Jhon, Myung S.  Professor – ChemE; Affiliated  mj3a@andrew.cmu.edu
Faculty – DSSC
Jia, Limin  Assistant Research  (412)-268-4605
Professor – CyLab, INI, ECE  liminjia@andrew.cmu.edu

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

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

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

Johnson, Aaron  Courtesy  amj1@andrew.cmu.edu
Professor – ECE, RI; Assistant
Professor – MechE
Jordan, Angel  Emeritus University  (412)-268-2590
Professor – ECE, RI  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  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
Keywords

Computer vision, autonomous systems, medical robotics

Kar, Soumya Associate Research Professor – ECE
(412)-268-8962
soumyak@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 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

Kimuki, 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  
+250 78 484 08 55  
skompall@andrew.cmu.edu

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

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

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

Krogh, Bruce H.  
Professor – ECE  
(412)-268-2472  
krogh@ece.cmu.edu

Kryder, Mark  
Emeritus University Professor – ECE; Affiliated Faculty – DSSC  
(412)-268-3513  
kryder@ece.cmu.edu

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

Kurpiewski, Matthew  
Systems Administrator – ECE  
(412) 268-1973  
mkorp@andrew.cmu.edu

Lambeth, David N.  
Emeritus – ECE  
(412)-268-3674  
lambeth@ece.cmu.edu

Keywords

distributed embedded systems, survivable system architecture, dependability

Keywords

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

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

Keywords

Magnetic recording, optical recording and ferroelectric materials
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

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

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

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
(412)-268-3105
sm70@andrew.cmu.edu

**Maly , Wojciech** Professor Emeritus – ECE (412)-268-6637
maly@ece.cmu.edu

**Marculescu , Diana** David Edward Schramm Professor – ECE; Associate Department Head for Academic Affairs – ECE
(412)-268-1167
dianam@ece.cmu.edu

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

**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

**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

**Metcalfe , David** Senior Linux Engineer – ECE
dmetcalf@andrew.cmu.edu
Miskov-Zivanov, Natasa Adjunct Faculty – ECE
Moe, Tara Director of Graduate Affairs – ECE
Mohimani, Hosein Courtesy Professor – ECE; Assistant Professor – CBD
Moneck, Matthew Executive Manager, ECE Nanofabrication Facility – Nanofab; Research Scientist – DSSC
Morchower, Bari Student Organizations and Activities Advisor – ECE
Morgan, Granger Professor – ECE; Lord Professor – EPP
Morris, James Professor – CS; Courtesy Professor – ECE
Moura, José Associate Department Head - Research & Strategic Initiatives – ECE; Philip L. and Marsha Dowd University Professor – ECE, BME; Affiliated Faculty – DSSC

Keywords
Technology and policy including climate change and electric power

Mukherjee, Tamal Professor – ECE

Moutis, Panayiotis Post Doctoral Research Associate – ECE
Mowry, Todd Professor – CS; Courtesy Professor – ECE; Co-Director – CALCM

Keywords
Computer architecture, compilers, operating systems, parallel processing

Moya, Linda Assistant Teaching Professor – ECE, SDS
Mukherjee, Tamal Professor – ECE
Keywords

Analog/RF/MEMS/biofluidic microsystem design

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

Keywords

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

N

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

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

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 cecile.peraire@sv.cmu.edu
Professor – ECE

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

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

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

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

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

Paramesh, Jeyanandh Associate (412)-268-1290 paramesh@ece.cmu.edu
Professor – ECE

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

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

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

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

Patton, Ashley Director of Engagement and Annual Giving – ECE awpatton@andrew.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

Popli, Nipun  Post Doctoral Research Associate – ECE  npopli@ece.cmu.edu

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

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

Keywords
Embedded and real-time systems

Ramakrishnan, Bhiksha Raj  Courtesy  
Professor – ECE; Associate Professor – LTI  
bhiksha@cs.cmu.edu

Reddy, Raj  Courtesy  
Professor – ECE; Mozah Bint Nasser University Professor – CS  
reddy@cs.cmu.edu

Reyes, Brittany  Academic Services and Student Organizations Coordinator – ECE  
bjreyes@andrew.cmu.edu

Ricketts, David  Adjunct Professor – ECE  
ricketts@ece.cmu.edu

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

Risley, Mason  Process Engineer – Nanofab  
mrisley@andrew.cmu.edu

Rohrer, Ronald A  Professor  
Emeritus – ECE  
rohrer@ece.cmu.edu

Keywords
Electronic circuits, systems design automation

Rosvanis, James  Nanofab Technician – Nanofab  
(412)-268-1375  
rosvanis@andrew.cmu.edu

Rowe, Anthony  Associate Professor – ECE  
(412)-268-4856  
agr@ece.cmu.edu

Keywords
Embedded systems, distributed systems, sensor networks

Rutenbar, Rob A  Adjunct Professor – ECE  
rutenbar@ece.cmu.edu

Keywords
VLSI CAD, algorithms, analog and digital circuits, automatic speech recognition
Salvador, Paul A. Associate Professor – MSE; Affiliated Faculty – DSSC
Sankaranarayanan, Aswin Assistant Professor – ECE
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
Scott, Stephanie Academic Program Advisor – ECE
Sekar, Vyas Assistant Professor – ECE

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

Serafin, Stephen Senior Systems Engineer – ECE
Seshan, Srinivasan Associate Professor – CS; Courtesy Professor – ECE

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
Professor – HCII, ECE, CSD
(412)-268-2570
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
ms3s@andrew.cmu.edu

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

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

**Smith Jr., Robert E.** Senior Windows Systems Engineer – ECE

**Smitley, Brandon** Linux Engineer – ECE

**Smola, Alex** Professor – MLD; Courtesy Professor – ECE

**Snizaski, Nathan** Ph.D. Academic Program Advisor – ECE

**Smola, Alex** Professor – MLD; Courtesy Professor – ECE

**Smola, Alex** Professor – MLD; Courtesy Professor – ECE

**Stancil, Daniel** Adjunct Professor – ECE

**Song, Dawn** Adjunct Professor – ECE

**Sreenath, Koushil** Courtesy Professor – ECE; Assistant Professor – RI

**Strojwas, Andrzej** Keithley Professor – ECE

**Steenkiste, Peter** Professor – ECE, CS

**Stevens, Dave** Facilities Assistant – ECE

**Stevenson, Kayleigh** Finance and Business Associate – ECE

**Strojwas, Andrzej** Keithley Professor – ECE

Keywords

Wireless communications, nanophotonics, spin wave devices

**Steenkiste, Peter** Professor – ECE, CS

**Stevens, Dave** Facilities Assistant – ECE

**Stevenson, Kayleigh** Finance and Business Associate – ECE

**Strojwas, Andrzej** Keithley Professor – ECE

Keywords

Computer networks, distributed systems, pervasive computing

**Steenkiste, Peter** Professor – ECE, CS

**Stevens, Dave** Facilities Assistant – ECE

**Stevenson, Kayleigh** Finance and Business Associate – ECE

**Strojwas, Andrzej** Keithley Professor – ECE

Keywords

Automatic speech recognition, auditory perception, signal processing

**Stevens, Dave** Facilities Assistant – ECE

**Stevenson, Kayleigh** Finance and Business Associate – ECE

**Strojwas, Andrzej** Keithley Professor – ECE
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 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.

U

Ustun, Taha Selim  Assistant Teaching Professor – ECE

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

V

Veloso, Manuela  Professor – CS; Courtesy Professor – ECE

Veríssimo, Paulo  Adjunct Professor – ECE

Veras, Richard  Post Doctoral Research Associate – ECE

Vernon, David  Teaching Faculty – ECE

Vidal Alvarez, Gabriel  Post Doctoral Research Associate – ECE

Vieira, Deb  Senior Multimedia Designer – ECE

Vinayak, Rashmi  Assistant Professor – CSD; Courtesy Professor – ECE

W

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

Weldon, Jeffrey  Adjunct Professor – ECE
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

Keywords

Magnetic nanotechnology

Will, Regis Senior Systems Engineer – ECE
Woodhead, Vickie Undergraduate Advisor – ECE

Yu, Yinliang Adjunct Professor – ECE

Yagan, Osman Assistant Research Professor – ECE

Yu, Byrnon Associate Professor – ECE; Assistant Professor – BME

Keywords

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

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

Ye, Terry Adjunct Professor – ECE

Yichye, Shahar Cleanroom Construction Protocol Manager – ECE

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
hzhang@cs.cmu.edu

Keywords

Computer networks, internet, resource management, multimedia

Zhang, Jia Associate Teaching Professor – ECE
jia.zhang@sv.cmu.edu

Zhang, Joy Adjunct Professor – ECE
(650)-335-2824
joy@cs.cmu.edu

Zhang, Pei Associate Research Professor – ECE
(650)-335-2823
peizhang@cmu.edu

Keywords

Sensor Networks, Embedded Systems

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

Keywords

Micromagnetics, magnetoelectronic devices, magnetic recording

Ziccardi, Chad Principal Systems Engineer – ECE
(412)-268-4453
ziccardi@ece.cmu.edu

Zurcher, Elaine Systems Administrator – ECE
(412)-268-1210
egadd@ece.cmu.edu