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

Alachiotis, Nikolaos Post Doctoral Research Associate – ECE  nalachio@ece.cmu.edu

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

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

Antaki, James Professor – BME; Courtesy Professor – ECE  antaki@andrew.cmu.edu

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

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

Balram, Nikhil Adjunct Professor – ECE

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

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

Belotti, Dave Shop Machinist – ECE  (412)-268-6326  dbelotti@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

Bauer, Lujo Associate Professor – ECE, ISR

Belotti, Dave Shop Machinist – ECE

Keywords

Computer security, access control, program monitoring, security automata, policy specification
Benicky, Sheryl Research Administrator – ECE  (412)-268-3729 sbenicky@ece.cmu.edu
Berger, Luc Emeritus Professor – Physics; Affiliated Faculty – DSSC (412)-268-2919 lberger@andrew.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

Bishop, Cathy Instructor – ECE mcbishop@andrew.cmu.edu
Blanton, Shawn Professor – ECE; Associate Director – JIE (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
Bosle, Kevin Senior Buyer – ECE (412)-268-9642 kbosle@ece.cmu.edu

Brown, Timothy X Distinguished Service Professor – ECE, EPP timxb@andrew.cmu.edu
Brumley, David J. Associate Professor – CS, ECE; Director – CyLab (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

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

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

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

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

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

Chen, Xiaoming Visiting Research Scholar – ECE  
xchen3@andrew.cmu.edu

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

Chong, Jike Adjunct Instructor – ECE-SV  
ichong@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 Assistant Research Professor – CyLab, ECE  
(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

Keywords

Hardware and software verification, automatic theorem proving, symbolic computation

Collier, Zara Academic Services Coordinator – ECE 412-268-5621 zcollier@andrew.cmu.edu

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

Copetas, Catherine ECE/SCS Office of Engagement and Annual Giving – ECE copetas@andrew.cmu.edu

Costa, Katie Student Organizations and Activities Advisor – ECE (412) 268-1470 kcosta@andrew.cmu.edu

Cowan, Christina Executive Assistant to the Department Head and Administrative Services Manager – ECE (412)-268-3299 ccowan@andrew.cmu.edu

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

Keywords

Usable privacy and security

Datta, Anupam Associate Professor – CyLab, ECE, CS 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@ece.cmu.edu

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

Demby, Lauren Administrative Coordinator – JIE, ECE, DSSC (412)-268-2650 ldemby@ece.cmu.edu
Keywords

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

Echko, Michelle  Finance and Business
Associate – ECE  mechko@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

Faloutsos, Christos  Professor – CS; Courtesy Professor – ECE
christos@cs.cmu.edu

Keywords

Databases, data mining, multimedia indexing, performance evaluation

Falsafi, Babak  Adjunct
Professor – ECE, CS  babak.falsafi@epfl.ch

Keywords

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

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

Fatahalian, Kayvon  Courtesy
Professor – ECE; Assistant Professor – CS  kayvonf@cmu.edu

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

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

Fox, Toni Sponsored Research
Assistant – CyLab

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

Keywords

Automatic performance tuning, digital
signal processing transforms, advanced
architectures

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

Keywords

Security, privacy, formal methods, and
programming languages.

Frost, Donna International Scholar
Coordinator – ECE

Furuta, Masaki Post Doctoral Research
Associate – ECE

G

Gamble, Andrew Laboratory Electronics
Supervisor – DSSC

Gandhi, Rajeev Courtesy Professor – ECE

Keywords

Wireless systems, multimedia
compression, signal processing/compression
Ganger, Greg Jatras
Professor – ECE, CS; Director – PDL; Affiliated Faculty – DSSC
(412)-268-1297
ganger@ece.cmu.edu

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

Garba, Aminata
Assistant Teaching Professor – ECE
(412)-268-8558
aminata@ece.cmu.edu

Gellman, Andrew J. Lord
Professor – ChemE; Professor – Chemistry; Affiliated Faculty – DSSC
(412)-268-3848
ag46@andrew.cmu.edu

Ghose, Saugata
Post Doctoral Research Associate – ECE
(412)-268-9192
saugatag@andrew.cmu.edu

Gibbons, Phil
Professor – ECE
(412)-268-3828
pgibbons@andrew.cmu.edu

Gibson, Garth
Professor – CS; Courtesy Professor – ECE; Affiliated Faculty – DSSC
(412)-268-5890
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 – CS; Courtesy Professor – ECE
(412)-268-3828
seth@cs.cmu.edu

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

Golub, Matt
Post Doctoral Research Associate – ECE
(412)-268-9833
mgolub@andrew.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 – 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 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 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@ece.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

Hoffman, Steve Machine Shop Foreman – ECE (412)-268-2505
hoffman@ece.cmu.edu

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

Hug, Gabriela Adjunct Faculty – ECE ghug@ece.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 – ECE (412)-268-9520 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

Islam, Mohammad F. Assistant Professor – ChemE, MSE; Courtesy Professor – ECE (412)-268-8999 mohammad@andrew.cmu.edu
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
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.

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

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, Soumya  Assistant Research Professor – ECE  (412)-268-8962  soumyak@andrew.cmu.edu

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

Kareis, Tomissa  Research Administrator – ECE  (412)-268-3863  tkareis@ece.cmu.edu

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

Kelly, Shawn K.  Senior Systems Scientist – ICES; Courtesy Professor – ECE  skkelly@andrew.cmu.edu
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Keywords</th>
</tr>
</thead>
<tbody>
<tr>
<td>Khosla, Pradeep K.</td>
<td>Adjunct Professor – ECE</td>
<td>agent-based design and control, S/W engineering for real-time systems,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>distributed robotics, distributed information systems, Secure Embedded</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Software/Systems, Sensor Networks</td>
</tr>
<tr>
<td></td>
<td>Chancellor – University of</td>
<td></td>
</tr>
<tr>
<td></td>
<td>California, San Diego</td>
<td></td>
</tr>
<tr>
<td>Kim, Hyong</td>
<td>Professor – ECE</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kirby, Reenie</td>
<td>Executive Assistant – JIE</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Knickerbocker, Kara</td>
<td>Administrative Coordinator –</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECE</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Koeske, Matt</td>
<td>Research Administrator – ECE</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kompalli, Suryaprakash</td>
<td>Assistant Teaching Professor –</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECE</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Koopman, Philip</td>
<td>Associate Professor – ECE, CS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kova#evi# Jelena</td>
<td>Schramm Professor – ECE;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Department Head – ECE; Professor-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BME; Director – Center for Bioimage Informatics</td>
<td></td>
</tr>
</tbody>
</table>

**Keywords**

- distributed embedded systems, survivable system architecture, dependability

**Contact Information**

- pkk@ece.cmu.edu
- kim@ece.cmu.edu
- hoejoonk@andrew.cmu.edu
- ikimukin@andrew.cmu.edu
- reenie@cmu.edu
- krk@andrew.cmu.edu
- koopman@cmu.edu
- 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

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 University Professor – ECE; Affiliated Faculty – DSSC  kryder@ece.cmu.edu

Keywords
Magnetic recording, optical recording and ferroelectric materials

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

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

Lambeth, David N. Emeritus Professor – ECE  (412)-268-3674  lambeth@ece.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 Assistant Professor – JIE; Adjunct Professor – ECE  mingli1@andrew.cmu.edu
Li, Xin  Associate Professor – ECE (412)-268-6507

Keywords

Integrated circuits, computer-aided design

Li-Hagerty, Lorraine  Business Program Manager – JIE (412) 268-1099

Lindenfelser, Karen  Administrative Manager – PDL; Administrative Coordinator – ECE (412)-268-6716

Liu, Zhaojun  Assistant Professor – JIE; Visiting Professor – ECE (412) 268-7786

Lloyd, Asia  Senior Administrative Coordinator – ECE (412)-268-4632

Low, Tze Meng  Systems Scientist – ECE (412) 268-5663

Lucia, Brandon  Assistant Professor – ECE (412) 268-3587

M

Mahouski, Michelle  Academic Services Coordinator – ECE mmahousk@andrew.cmu.edu

Mai, Ken  Principal Systems Scientist – ECE (412)-268-8335

Keywords

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

Majetich, Sara A.  Professor – Physics; Courtesy Professor – ECE; Affiliated Faculty – DSSC (412)-268-3105

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

Keywords

Computer-aided design and manufacturing of VLSICs

Marculescu, Radu  Professor – ECE (412)-268-8710

Keywords

Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.
Marculescu, Diana  Associate  
Department Head for Academic Affairs – ECE; Professor – ECE  
(412)-268-1167  
dianam@ece.cmu.edu

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

Martins, Rolando  Post Doctoral Research Associate – ECE  
(412)-268-2476  
martinsr@ece.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

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  Associate Research Professor – ECE  
ole.mengshoel@sv.cmu.edu

Miskov-Zivanov, Natasa  Adjunct Faculty – ECE  
(412)-268-9873  
mmiskov@andrew.cmu.edu

Moe, Tara  Associate Director of Graduate Affairs – ECE  
(412)-268-6327  
taramoe@ece.cmu.edu

Moneck, Matthew  Executive Manager, ECE Nanofabrication Facility – Nanofab; Research Scientist – DSSC  
(412)-268-5430  
mmoneck@andrew.cmu.edu

Morgan, Granger  Professor – ECE; Lord Professor – EPP  
(412)-268-2672  
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

Moura, Jose  Associate Department Head - Research & Strategic Initiatives – ECE; Philip L.  
(412)-268-6341  
moura@ece.cmu.edu
and Marsha Dowd University
Professor – ECE, BME; Affiliated
Faculty – DSSC

Keywords

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

Moutis, Panayiotis Post Doctoral Research (412) 268-7114
Associate – ECE pmoutis@andrew.cmu.edu

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

Keywords

Computer architecture, compilers, operating systems, parallel processing

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

Keywords

Analog/RF/MEMS/biofluidic microsystem design

Mutlu, Onur Associate (412)-268-1186
Professor – ECE, CS onur@cmu.edu

Keywords

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

N

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

Negi, Rohit Professor – ECE; Affiliated (412)-268-6264
Faculty – DSSC 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

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

Keywords

Scientific computing, parallel computing, computational database systems, and virtualization
Ozdoganlar, O. Burak Affiliated Faculty – DSSC; Associate Professor – MechE
Ozdoganlar, O. Burak (412)-268-9890
ozdoganlar@cmu.edu

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

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

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

Keywords

Fast computing, algorithms, applied mathematics, and signal processing (theory, software, hardware)
Pagliarini, Samuel Post Doctoral Research Associate – ECE
Pagliarini, Samuel spagliar@ece.cmu.edu

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

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

Keywords

Analog, Mixed-signal and RF/millimeter-wave Integrated Circuit Design, Digitally-assisted analog/RF IC design
Pasareanu, Corina Senior Research Scientist – ECE-SV
Pasareanu, Corina (650)-604-4767
pcorina@andrew.cmu.edu
Patterson, Carol
Administrative Coordinator – ECE
(412)-268-7286
carol@ece.cmu.edu

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.

Peters, Janet M.
Manager of Undergraduate Advising – ECE
(412)-268-3666
jmpeters@andrew.cmu.edu

Phelps, Shelley
Senior Administrative Coordinator – ECE
(412)-268-8162
sphelps@ece.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
prelich-knight@ece.cmu.edu

Keywords

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

Keywords

Embedded and real-time systems

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

Keywords

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

Rohde, Gustavo K. Associate Professor – BME; Courtesy Professor – ECE
rro@ece.cmu.edu

Keywords

Electronic circuits, systems design automation

Rosvanis, James Nanofab Technician – Nanofab
rosvanis@andrew.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

Rybski, Paul E. Systems Scientist – RI; Adjunct Professor – ECE  (412)-268-7417  prybski@cs.cmu.edu

Keywords

Human/robot interaction, mobile robotics

Salvador, Paul A. Associate Professor – MSE; Affiliated Faculty – DSSC  (412)-268-2702  paul7@andrew.cmu.edu

Sankaranarayanan, Aswin Assistant Professor – ECE  (412)-268-1087  saswin@ece.cmu.edu

Santhanam, Suresh Process Engineer – ECE  (412)-268-2026  ss9s@andrew.cmu.edu

Santos, Augusto Post Doctoral Research Associate – ECE  (412)-268-9499  augustos@andrew.cmu.edu

Sekar, Vyas Assistant Professor – ECE  vsekar@ece.cmu.edu

Keywords

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

Schlesinger, T.E. (Ed) Adjunct Professor – ECE  ed@ece.cmu.edu

Schneider, Jeff Research Professor – RI; Courtesy Professor – ECE  jeff4@andrew.cmu.edu

Scott, Stephanie Academic Program Advisor – ECE  scottsm@andrew.cmu.edu

Santos, Augusto Post Doctoral Research Associate – ECE  (412)-268-9499  augustos@andrew.cmu.edu

Satyanarayanan, Mahadev Carnegie Professor – CS; Courtesy Professor – ECE  satya@cmu.edu

Satyanarayanan, Mahadev Carnegie Professor – CS; Courtesy Professor – ECE  satya@cmu.edu

Savvides, Marios Research Professor – ECE; Director – CyLab Biometrics Center  (412)-268-1142  marioss@andrew.cmu.edu

Keywords

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

Schlesinger, T.E. (Ed) Adjunct Professor – ECE  ed@ece.cmu.edu

Schneider, Jeff Research Professor – RI; Courtesy Professor – ECE  jeff4@andrew.cmu.edu

Scott, Stephanie Academic Program Advisor – ECE  scottsm@andrew.cmu.edu

Sekar, Vyas Assistant Professor – ECE  vsekar@ece.cmu.edu
Keywords

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

Serafin, Stephen Senior Systems Engineer – ECE (412)-268-5716 sserafin@ece.cmu.edu

Seshan, Srinivasan Associate Professor – CS; Courtesy Professor – ECE (412)-268-8734 srini@cmu.edu

Keywords

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

Shaw, David Post Doctoral Research Associate – ECE (412)-268-7114 dashaw@ece.cmu.edu

Shen, John Professor – ECE (412)-268-7114 jpschen@cmu.edu

Keywords

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

Siewiorek, Daniel Buhl University Professor – ECE, CS; Director – HCII (412)-268-2570 dps@ece.cmu.edu

Keywords

Computer architecture, reliability, context aware mobile computing

Singh, Bob Adjunct Instructor – ECE-SV (412)-268-9432 bob.singh@west.cmu.edu

Sinopoli, Bruno Associate Professor – ECE, RI, MechE (412)-268-9432 brunos@ece.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 Administrative Assistant – ECE (412) 268-9192
Skovira@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 (412)-268-6033
Robsmith@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

Wireless communications, nanophotonics, spin wave devices

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

Keywords

Computer networks, distributed systems, pervasive computing

Stern, Richard Professor – ECE, LTI, CS, BME; Lecturer – Music (412)-268-2535
Rms@ece.cmu.edu
Keywords
Automatic speech recognition, auditory perception, signal processing
Stevens, Dave Facilities Assistant – ECE 412-268-2470
daves@andrew.cmu.edu
Stevenson, Kayleigh Finance and Business Assistant – 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

Keywords
Network security; Wireless networking
Tague, Patrick Associate Research Professor – CyLab, INI, ECE (650)-335-2827
patrick.tague@sv.cmu.edu

Keywords
Autonomous agents, distributed control, power systems, cascading failures
Tang, Xiaoying Adjunct Professor – ECE; Assistant Professor – JIE (412) 268-5244
txiaoyin@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 (412)-268-8091 towe@cmu.edu

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

Treuille, Adrien  Courtesy Professor – ECE; Assistant Professor – CS treuille@cs.cmu.edu

Ustun, Taha Selim  Assistant Teaching Professor – ECE (412)-268-4862 ustun@cmu.edu

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

Vaclav, Robyn  Temporary Employee Services - Sponsored Research Administration – ECE rmmore@ece.cmu.edu

Veloso, Manuela  Professor – CS; Courtesy Professor – ECE mmv@cs.cmu.edu

Veríssimo, Paulo  Adjunct Professor – ECE pjv@di.fc.ul.pt

Vidal Alvarez, Gabriel  Post Doctoral Research Associate – ECE gvidal@andrew.cmu.edu

Vieira, Deb  Senior Multimedia Designer – ECE (412)-268-5032 debraost@ece.cmu.edu

Wang, Kai  Assistant Professor – JIE; Adjunct Professor – ECE wangkai@andrew.cmu.edu

Wang, Yao  Post Doctoral Research Associate – ECE (412)-268-6726 yaowang@ece.cmu.edu
Wasserman, Anthony Adjunct Professor – ECE (650)-335-2807 tonyw@cmu.edu

Weiler, Mark Equipment Manager, Nanofabrication Facility – ECE mweiler@andrew.cmu.edu

Weiss, Lee Courtesy Professor – ECE; Research Professor – RI lew@andrew.cmu.edu

Weldon, Jeffrey Assistant Professor – ECE (412)-268-6940 jweldon@ece.cmu.edu

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

Wen, Tianlong Post Doctoral Research Associate – Physics, DSSC (412)-268-2319

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

Keywords
Magnetic nanotechnology

Will, Regis Senior Systems Engineer – ECE (412)-268-3126 rwill@andrew.cmu.edu

Wing, Jeannette M President's Professor – CS; Courtesy Professor – ECE (412)-268-3068 wing@cs.cmu.edu

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

Woodhead, Vickie Undergraduate Advisor – ECE (412) 268-4425 woodhead@ece.cmu.edu

Wright, Brittany Temporary Employee Services - Academic Services Center – ECE bwright1@andrew.cmu.edu

X

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

Y

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

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

Yankasky, Shauntae Academic Advising Support – ECE
(412)-268-6581 scyank@andrew.cmu.edu

Ydstie, B. Erik Professor – ChemE; Courtesy Professor – ECE
(412)-268-2235 ydstie@andrew.cmu.edu

Ye, Terry Associate Professor – JIE; Adjunct Professor – ECE
(412) 268-5401 terryye@ece.cmu.edu

Yu, Zhiyi Adjunct Professor – ECE; Associate Professor – JIE
zhiiyu@andrew.cmu.edu

Keywords

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

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

Keywords

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

Z

Zhang, Jun Assistant Professor – JIE; Visiting Professor – ECE
(412) 268-3935 junz2@ece.cmu.edu

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

Zhang, Hui Professor – CS; Courtesy Professor – ECE
(412)-268-8945 hzhang@cs.cmu.edu
Keywords

Computer networks, internet, resource management, multimedia

Zhu, Jimmy Co-Director – JIE; 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