<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Accomplishments</th>
<th>Phone Number</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agarwal, Yuvraj</td>
<td>Courtesy Professor – ECE; Assistant Professor – CS</td>
<td>(412) 268-7328</td>
<td><a href="mailto:yuvraja@andrew.cmu.edu">yuvraja@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Alacce, John</td>
<td>Systems Administrator – ECE</td>
<td>(412)-268-6649</td>
<td><a href="mailto:jalacce@ece.cmu.edu">jalacce@ece.cmu.edu</a></td>
</tr>
<tr>
<td>Ambrass, Charlotte</td>
<td>Associate Director of Finance and Sponsored Research – ECE</td>
<td>(412)-268-6858</td>
<td><a href="mailto:ambrass@ece.cmu.edu">ambrass@ece.cmu.edu</a></td>
</tr>
<tr>
<td>Andersen, David</td>
<td>Adjunct Professor – ECE</td>
<td></td>
<td><a href="mailto:dga2@andrew.cmu.edu">dga2@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Anna, Shelley L.</td>
<td>Associate Professor – MechE; Affiliated Faculty – DSSC</td>
<td>(412)-268-6492</td>
<td><a href="mailto:sanna@andrew.cmu.edu">sanna@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Anschuetz, Lou</td>
<td>IT Manager – ECE</td>
<td>(412)-268-6817</td>
<td><a href="mailto:lou@ece.cmu.edu">lou@ece.cmu.edu</a></td>
</tr>
<tr>
<td>Antaki, James</td>
<td>Professor – BME; Courtesy Professor – ECE</td>
<td></td>
<td><a href="mailto:antaki@andrew.cmu.edu">antaki@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Atwell, Niccole</td>
<td>Senior Associate Director of Engagement and Annual Giving – ECE</td>
<td>(412) 268-8858</td>
<td><a href="mailto:atwell@andrew.cmu.edu">atwell@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Bain, Jim</td>
<td>Professor – ECE, MSE; Associate Director – DSSC</td>
<td>(412)-268-3602</td>
<td><a href="mailto:jbain@ece.cmu.edu">jbain@ece.cmu.edu</a></td>
</tr>
<tr>
<td>Balram, Nikhil</td>
<td>Adjunct Professor – ECE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bandola, Judy</td>
<td>Administrative Coordinator – ECE</td>
<td>(412)-268-2224</td>
<td><a href="mailto:judy@ece.cmu.edu">judy@ece.cmu.edu</a></td>
</tr>
<tr>
<td>Bauer, Lujo</td>
<td>Associate Professor – ECE, ISR</td>
<td>(412)-268-9745</td>
<td><a href="mailto:lbauer@cmu.edu">lbauer@cmu.edu</a></td>
</tr>
<tr>
<td>Bauerle, Claire E.</td>
<td>Administrative Coordinator – ECE</td>
<td>(412)-268-7422</td>
<td><a href="mailto:cbauerle@ece.cmu.edu">cbauerle@ece.cmu.edu</a></td>
</tr>
<tr>
<td>Belotti, Dave</td>
<td>Shop Machinist – ECE</td>
<td>(412)-268-6326</td>
<td><a href="mailto:dbelotti@ece.cmu.edu">dbelotti@ece.cmu.edu</a></td>
</tr>
<tr>
<td>Benicky, Sheryl</td>
<td>Research Administrator – ECE</td>
<td>(412)-268-3729</td>
<td><a href="mailto:sbenicky@ece.cmu.edu">sbenicky@ece.cmu.edu</a></td>
</tr>
</tbody>
</table>

**Keywords**

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

Bhal, Nikhil Adjunct Professor – ECE

Bandola, Judy Administrative Coordinator – ECE

Bauer, Lujo Associate Professor – ECE, ISR

Keywords

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

Bauerle, Claire E. Administrative Coordinator – ECE

Belotti, Dave Shop Machinist – ECE

Benicky, Sheryl Research Administrator – ECE
Berger, Luc Emeritus Professor – Physics; Affiliated Faculty – DSSC
Berger@andrew.cmu.edu

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

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

Bianchini, Ronald Adjunct Professor – ECE
rpbece.cmu.edu

Keywords
Distributed fault-tolerant computing and computer networks

Bishop, Cathy Instructor – ECE
mcbishop@andrew.cmu.edu

Bishop, Cathy Keywords
Formal hardware and software verification

Blanton, Shawn Professor – ECE; Associate Director – JIE
rblanton@andrew.cmu.edu

Brown, Timothy X Distinguished Service Professor – ECE, EPP
timxb@andrew.cmu.edu

Brown, Timothy X Keywords
Test and diagnosis of heterogeneous, integrated systems

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

Bollapragada, Vara Keywords

Bosle, Kevin Senior Buyer – ECE
kposleece.cmu.edu

Bosle, Kevin Keywords

Burns, Krista Communications Manager – ECE
kgreganece.cmu.edu

Burns, Krista Keywords

Carley, Kathleen Professor – ISR; Courtesy Professor – ECE
kathleen.carley@cs.cmu.edu

Carley, Kathleen Keywords

Brumley, David J. Associate Professor – CS, ECE; Director – CyLab
dbrumley@ece.cmu.edu

Brumley, David J. Keywords

Bryant, Randal Professor – CS; Courtesy Professor – ECE
bryant@cs.cmu.edu

Bryant, Randal Keywords

C
Carley, Rick
ST Microelectronics
Professor – ECE; Affiliated Faculty – DSSC
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
lchomas@andrew.cmu.edu

Chong, Jike
Adjunct Instructor – ECE-SV
ichong@andrew.cmu.edu

Choset, Howie
Professor – RI; Courtesy Professor – ECE
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

Christin, Nicolas
Assistant Research Professor – CyLab, ECE
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
pil@cmu.edu
Keywords
mobile and space robotics, human-robot interaction, mechatronics, automated manufacturing

Donegan, Asia  Senior Administrative Coordinator – ECE  (412)-268-4632  aslloyd@ece.cmu.edu

Echko, Michelle  Finance and Business Associate – ECE  412-268-2939  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  (412)-268-1457  christos@cs.cmu.edu

Echko, Michelle  Finance and Business Associate – ECE  412-268-2939  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  (412)-268-1457  christos@cs.cmu.edu

Echko, Michelle  Finance and Business Associate – ECE  412-268-2939  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  (412)-268-1457  christos@cs.cmu.edu

Echko, Michelle  Finance and Business Associate – ECE  412-268-2939  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  (412)-268-1457  christos@cs.cmu.edu
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
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 ag4@andrew.cmu.edu

Ghose, Saugata Post Doctoral Research Associate – 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 (412)-268-5890 garth@cs.cmu.edu

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

Golub, Matt Post Doctoral Research Associate – ECE 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

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

Goldstein, Seth Associate Professor – CS; 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 – ECE (412)-268-3707 dg07@andrew.cmu.edu

Keywords

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

Golub, Matt Post Doctoral Research Associate – ECE 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
grover@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

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

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 (412) 268-3363

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
Jia, Limin Assistant Research Professor – CyLab, INI, ECE

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

Joe-Wong, Carlee Adjunct Faculty – ECE
Jordan, Angel Emeritus University Professor – ECE, RI

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

Joshi, Gauri Adjunct Faculty – ECE

Keywords
Computer vision, autonomous systems, medical robotics

Kar, Soummya Assistant Research Professor – ECE

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

Kareis, Tomissa Research Administrator – ECE

Keywords

Kass, Leona Associate Director of Student and Academic Affairs – ECE

Kelly, Shawn K. Senior Systems Scientist – ICES; Courtesy Professor – ECE

Keywords

Khosla, Pradeep K. Adjunct Professor – ECE; Chancellor – University of California, San Diego

(412)-268-2233
mj3a@andrew.cmu.edu
(412)-268-4605
liminjia@andrew.cmu.edu
(412)-268-2590
ajordan@cs.cmu.edu
(412)-268-3016
tk@cs.cmu.edu
(412)-268-8962
soumyak@andrew.cmu.edu
(412)-268-3863
tkareis@ece.cmu.edu
(412)-268-2496
lkass@andrew.cmu.edu
skkelly@andrew.cmu.edu
pkk@ece.cmu.edu
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

**Keywords**

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

Kim, Hoe Joon Post Doctoral Research Associate – ECE

Kimukin, Ibrahim Research Associate – ECE

Kirby, Reenie Executive Assistant – JIE

Knickerbocker, Kara Administrative Coordinator – ECE

Koeske, Matt Research Administrator – ECE

Kompalli, Suryaprakash Assistant Teaching Professor – ECE

Koopman, Philip Associate Professor – ECE, CS

**Keywords**

distributed embedded systems, survivable system architecture, dependability

Kovaevi, Jelena David Edward Schramm University Professor and Head – ECE; University Professor – BME; Director – Center for Bioimage Informatics

**Keywords**

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

Kozuch, Michael A. Adjunct Professor – ECE

Krogh, Bruce H. Professor – ECE

**Keywords**
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
swarun@cmu.edu

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

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

Lambeth, David N. Emeritus
Professor – ECE
lambeth@ece.cmu.edu

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

Leathers, Diana Administrative Coordinator – ECE
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
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
lhagerty@cmu.edu

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

Liu, Zhaojun Assistant Professor – JIE; Visiting Professor – ECE
lhagerty@cmu.edu

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

Low, Tze Meng Systems Scientist – ECE
(412) 268-5663
lowt@andrew.cmu.edu

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

Majetich, Sara A. Professor – Physics; Courtesy Professor – ECE; Affiliated Faculty – DSSC
(412)-268-8335
sm70@andrew.cmu.edu

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

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

Majetic, Wojciech Emeritus Professor – ECE
(412)-268-637
maly@ece.cmu.edu

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

Keywords
Computer-aided design and manufacturing of VLSICs

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.
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

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  (412)-268-9873  emehdiza@ece.cmu.edu

Mengshoel, Ole  Associate Research Professor – ECE  (412)-268-6327  ole.mengshoel@sv.cmu.edu

Miskov-Zivanov, Natasa  Adjunct Faculty – ECE  (412)-268-6341  nmiskov@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, José  Associate Department Head - Research & Strategic Initiatives – ECE; Philip L. and Marsha Dowd University Professor – ECE, BME; Affiliated Faculty – DSSC  (412)-268-6341  moura@ece.cmu.edu
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 Professor – ECE; Co-Director – CALCM (412)-268-3725
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 Professor – ECE, CS (412)-268-1186
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 Faculty – DSSC (412)-268-6264
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
(412)-268-8199 droh@cs.cmu.edu

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

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

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

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

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 Post Doctoral Research Associate – ECE
spagliar@ece.cmu.edu

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

Paramesh, Jeyanandh Associate Professor – ECE
(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
(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  (412)-268-5087  lyz@ece.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

**Rohde, Gustavo K.**  Associate Professor – BME; Courtesy Professor – ECE  gustavor@andrew.cmu.edu

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

**Keywords**

Electronic circuits, systems design automation

**Rosvanis, James**  Nanofab Technician – Nanofab  rosvanis@andrew.cmu.edu

**Rowe, Anthony**  Associate Professor – ECE  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

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

Keywords

Human/robot interaction, mobile robotics

S

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 Principal Process Engineer – ECE  (412)-268-2026  ss9s@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  (412)-268-3743  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

Keywords

Semiconductor devices, information storage, optoelectronic systems

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

Scott, Stephanie Academic Program Advisor – ECE  (650)-335-2853  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
Shen, John Professor – ECE (412)-268-9432 jshen@ece.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
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 Coordinator – ECE  (412) 268-9192
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 (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
mrs@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

T

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

Keywords

Network security; Wireless networking

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

Thomas, Donald  Professor – 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 (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

U
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
Veloso, Manuela Professor – CS; Courtesy Professor – ECE mmv@cs.cmu.edu
Veríssimo, Paulo Adjunct Professor – ECE piv@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 debrapost@ece.cmu.edu

W
Wang, Kai Assistant Professor – JIE; Adjunct Professor – ECE 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
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

Wing, Jeannette M. President's Professor – CS; Courtesy Professor – ECE

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

Woodhead, Vickie Undergraduate Advisor – ECE

X

Xu, Yinliang Assistant Professor – JIE; Adjunct Professor – ECE

Y

Yagan, Osman Assistant Research Professor – ECE

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

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

Ye, Terry Associate Professor – JIE; Adjunct Professor – ECE

Yichye, Shahar Cleanroom Construction Protocol Manager – ECE
Yu, Zhiyi  Adjunct Professor – ECE; Associate Professor – JIE

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