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

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

**Alvarez, Renee** Senior Administrative Assistant – ECE RCALVARE@andrew.cmu.edu

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

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

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

**Andersen, David** Adjunct Professor – ECE dga2@andrew.cmu.edu (412)-268-6492

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

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

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

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

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

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

**Beckmann, Nathan** Courtesy Professor – ECE; Assistant Professor – CSD beckmann@cs.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 – ISR, ECE

**Bauerle, Claire E.** Administrative Coordinator – ECE

**Beckmann, Nathan** Courtesy Professor – ECE; Assistant Professor – CSD
Berger, Luc  Professor Emeritus – Physics; Affiliated Faculty – DSSC
Berges, Mario  Assistant Professor – CEE; Courtesy Professor – ECE
Bhagavatula, Vijayakumar  U.A. and Helen Whitaker Professor – ECE; Affiliated Faculty – DSSC; Associate Dean of Faculty and Graduate Affairs – CIT

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

Bianchini, Ronald  Adjunct Professor – ECE

Keywords
Distributed fault-tolerant computing and computer networks

Bintrim, Grace  Administrative Coordinator – ECE

Keywords
Test and diagnosis of heterogeneous, integrated systems

Bollapragada, Vara  Post Doctoral Research Associate – ECE

Keywords
Formal hardware and software verification

Brown, Timothy X  Distinguished Service Professor – EPP, ECE
Brumley, David J  Associate Professor – CSD; Director – CyLab; Professor – ECE
Bryant, Randal  Professor – CS; Courtesy Professor – ECE

Keywords
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 mcarlis@andrew.cmu.edu

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

Chi, Yuejie Associate 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 Professor – CyLab; Courtesy Professor – ECE

Keywords

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

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

Keywords

Usable privacy and security

Datta, Anupam Associate Professor – CyLab, ECE

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

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

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

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

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

Elgersma, Steve Senior Systems & Software Engineer – ECE
elgersma@ece.cmu.edu

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

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

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

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

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

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

Feenstra, Randy Professor – Physics; Courtesy Professor – ECE
(412)-268-6961 feenstra@andrew.cmu.edu

Keywords

Molecular beam epitaxy, scanning tunneling microscopy

Ferris, Sherri Administrative Coordinator – ECE
(412) 268-4632 sferris@andrew.cmu.edu

Fox, Toni Sponsored Research Assistant – CyLab
(412) 268-1657 tonif@andrew.cmu.edu

Franchetti, Franz Professor – ECE; Faculty Director of ITS – ECE
(412)-268-8297 franzf@ece.cmu.edu

Keywords

Automatic performance tuning; automatic software libraries generation; code generation for multicore CPUs, high-performance systems (HPC), GPUs, FPGA-acceleration; logic-in-memory and 3DIC systems; domain-specific languages and compilers

Fredrikson, Matt Assistant Professor – ISR, CS; Courtesy Professor – ECE
(412) 268-3992 mfredrik@andrew.cmu.edu

Keywords

Security, privacy, formal methods, and programming languages.

Frost, Brittany Senior Sponsored Research Assistant – CyLab
412-268-1212 bfrost@andrew.cmu.edu

Frost, Donna International Scholar Coordinator – ECE
412-268-3407 dfrost@andrew.cmu.edu

Furuta, Masaki Post Doctoral Research Associate – ECE
mfuruta@ece.cmu.edu

Gamble, Andrew Laboratory Electronics Supervisor – DSSC
(412)-268-1110 igamble@ece.cmu.edu
Ganger, Greg  Affiliated Faculty – CSD; Jatras
Professor – ECE, CSD; Director – PDL
(412)-268-1297
ganger@ece.cmu.edu

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

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

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

Gellman, Andrew J. Lord  Professor – ChemE; Professor – Chemistry; Affiliated Faculty – DSSC
(412)-268-3848
ag4b@andrew.cmu.edu

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

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

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

Keywords
Computer architecture, operating systems, file systems, disk arrays

Gkioulekas, Ioannis  Courtesy Professor – ECE; Assistant Professor – RI
(412)-268-9833
igkioule@andrew.cmu.edu

Gligor, Virgil  Professor – ECE; Co-Director – CyLab
(412)-268-3828
virgil@andrew.cmu.edu

Goldstein, Seth  Associate Professor – CSD; Courtesy Professor – ECE
(412)-268-3707
seth@cs.cmu.edu

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

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

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

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

Semiconductor device physics and semiconductor process technology, sensors
Grieco, Patricia L. Administrative Manager – DSSC (412)-268-6429
Grieco, Patricia L. Administrative Manager – DSSC pg1q@andrew.cmu.edu
Griss, Martin L. Adjunct Professor – ECE (650)-335-2805
Griss, Martin L. Adjunct Professor – ECE martin.griss@west.cmu.edu
Grover, Pulkit Assistant Professor – ECE 412-268-3644
Grover, Pulkit Assistant Professor – ECE pgrover@ece.cmu.edu
Grupe, Alan Senior Facilities Manager – ECE (412)-268-2526
Grupe, Alan Senior Facilities Manager – ECE alan@ece.cmu.edu
Harchol-Balter, Mor Associate Professor – CS; Courtesy Professor – ECE (412)-268-7893
Harchol-Balter, Mor Associate Professor – CS; Courtesy Professor – ECE harchol@andrew.cmu.edu

Keywords

Scheduling of computer systems, workload characterization, heavy-tailed distributions
Harding, Meighan Senior Director of Operations – ECE (412)-268-8924
Harding, Meighan Senior Director of Operations – ECE meighan.harding@ece.cmu.edu
He, Bin Courtesy Professor – ECE; Professor – BME; Department Head – BME (412)-268-2486
He, Bin Courtesy Professor – ECE; Professor – BME; Department Head – BME bhe1@andrew.cmu.edu

Keywords

Tribology, nanomanufacturing, multi-scale particle flows
Hills, Alex Distinguished Service Professor – EPP; Courtesy Professor – ECE (907)-232-6088
Hills, Alex Distinguished Service Professor – EPP; Courtesy Professor – ECE ahills@cmu.edu

Keywords

Research in wireless technology and telecommunications policy
Hilton, Chad Senior Systems & Software Engineer – ECE (412)-268-6037
Hilton, Chad Senior Systems & Software Engineer – ECE chilton@andrew.cmu.edu
Hoburg, James Emeritus Faculty – ECE (412)-268-2473
Hoburg, James Emeritus Faculty – ECE 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** Distinguished Service Professor – Carnegie Mellon Silicon Valley, ECE; Director – CyLab Mobility Research Center

(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 for Research – CMU; Courtesy Professor – ECE  farnam@andrew.cmu.edu
Jayan, B. Reeja  Courtesy Professor – ECE  bjayan@andrew.cmu.edu
Jhon, Myung S.  Professor – ChemE; Affiliated Faculty – DSSC  mj3a@andrew.cmu.edu
Jia, Limin  Assistant Research Professor – CyLab, INI, ECE  (412)-268-4605 liminjia@andrew.cmu.edu

Keywords

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

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

Keywords

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

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

Keywords

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

Joshi, Gauri  Assistant Professor – ECE  gaurij@andrew.cmu.edu

Keywords

performance analysis, cloud computing, machine learning

K

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

Computer vision, autonomous systems, medical robotics

Kar, Soummya Associate Professor – ECE (412)-268-8962

Keywords

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

Kass, Leona Director of Student and Academic Affairs – ECE (412)-268-2496

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

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

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

Keywords

agent-based design and control, S/W engineering for real-time systems, distributed robotics, distributed information systems, Secure Embedded Software/ Systems, Sensor Networks

Kim, Hyong Drew D. Perkins Professor – ECE (412)-268-6491

Keywords

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

Kimukin, Ibrahim Research Associate – ECE (412)-268-9013

Kitani, Kris Courtesy Professor – ECE; Assistant Research Professor – RI

Knickerbocker, Kara Administrative Coordinator – ECE (412)-268-2389

Kochhar, Abhay Research Scientist – ECE (412)-268-8013

Koeske, Matt Research Administrator – ECE (412)-268-7293
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Keywords</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kompalli, Suryaprakash</td>
<td>Assistant Teaching Professor – ECE</td>
<td>distributed embedded systems, survivable system architecture, dependability</td>
</tr>
<tr>
<td>Koopman, Philip</td>
<td>Associate Professor – ECE, CS</td>
<td></td>
</tr>
<tr>
<td>Kova#evi#, Jelena</td>
<td>University Professor – ECE; University Professor – BME</td>
<td></td>
</tr>
<tr>
<td>Kozuch, Michael A.</td>
<td>Adjunct Professor – ECE</td>
<td></td>
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<tr>
<td>Krogh, Bruce H.</td>
<td>Professor – ECE</td>
<td></td>
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<tr>
<td>Kryder, Mark</td>
<td>Emeritus University Professor – ECE; Affiliated Faculty – DSSC</td>
<td></td>
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<tr>
<td>Kumar, Swarun S.</td>
<td>Assistant Professor – ECE</td>
<td></td>
</tr>
<tr>
<td>Kurpiewski, Matthew</td>
<td>Systems Administrator – ECE</td>
<td></td>
</tr>
<tr>
<td>Lambeth, David N.</td>
<td>Professor Emeritus – ECE</td>
<td></td>
</tr>
</tbody>
</table>
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
dl0p@andrew.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 Adjunct Professor – ECE
mingli1@andrew.cmu.edu

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

Keywords

Integrated circuits, computer-aided design

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

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

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

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

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

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

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

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

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

Majetich, Sara A. Professor – Physics; Courtesy Professor – ECE; Affiliated Faculty – DSSC
(412)-268-3105
sm70@andrew.cmu.edu

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

Keywords

Computer-aided design and manufacturing of VLSICs

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

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

Keywords

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

Keywords

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

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

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

Keywords

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

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

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

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

Mehdizadeh, Emad Post Doctoral Research Associate – ECE
emehdiza@ece.cmu.edu
Mengshoel, Ole  Principal Systems Scientist – ECE ole.mengshoel@sv.cmu.edu
Metcalf, David  Senior Linux Engineer – ECE dmetcalf@andrew.cmu.edu
Miskov-Zivanov, Natasa  Adjunct Faculty – ECE nmiskov@andrew.cmu.edu
Moe, Tara  Director of Graduate Affairs – ECE taramoe@ece.cmu.edu
Mohimani, Hosein  Courtesy Professor – ECE; Assistant Professor – CBD hoseinm@andrew.cmu.edu
Moneck, Matthew  Executive Manager, ECE Nanofabrication Facility – Nanofab; Research Scientist – DSSC mmoneck@andrew.cmu.edu
Morchower, Bari  Student Organizations and Activities Advisor – ECE bmorchow@andrew.cmu.edu
Morgan, Granger  Professor – ECE; Lord Professor – EPP gm5d@andrew.cmu.edu

Keywords
Technology and policy including climate change and electric power

Morris, James  Professor – CS; Courtesy Professor – ECE james.morris@sv.cmu.edu
Moura, Jose  Associate Department Head - Research & Strategic Initiatives – ECE; Philip L. and Marsha Dowd University Professor – ECE, BME; Affiliated Faculty – DSSC moura@ece.cmu.edu

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

Moutis, Panayiotis  Post Doctoral Research Associate – ECE pmoutis@andrew.cmu.edu
Mowry, Todd  Professor – CS; Courtesy Professor – ECE; Co-Director – CALCM tcm@cs.cmu.edu

Keywords
Computer architecture, compilers, operating systems, parallel processing
Moya, Linda  Assistant Teaching Professor – ECE, SDS  412-268-8364 lhmoya@andrew.cmu.edu
Mukherjee, Tamal  Professor – ECE  (412)-268-8522 tamal@ece.cmu.edu

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

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

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

O'Hallaron, David Professor – CS, ECE; Director – Intel Research Pittsburgh
droh@cs.cmu.edu

Ozdoganlar, O. Burak Affiliated Faculty – DSSC; Associate Professor – MechE
ozdoganlar@cmu.edu

Ozdoganlar, Neslihan M.S. Academic Program Advisor – ECE
neslio@andrew.cmu.edu

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

Püschel, Markus Adjunct Professor – ECE
pueschel@ece.cmu.edu

Keywords

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

Paramesh, Jeyanandh Associate Professor – ECE
paramesh@ece.cmu.edu

Parno, Bryan Associate Professor – ECE, CSD
parno@cmu.edu

Pasareanu, Corina Senior Research Scientist – ECE-SV
(650)-604-4767
Patterson, Carolyn
Administrative Coordinator – ECE
pcorina@andrew.cmu.edu
(412)-268-7286
carol@ece.cmu.edu

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

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

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

Penderville, JT
Audio Visual & Distance Communications Manager – ECE
jtpender@andrew.cmu.edu
(412) 268-6555

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

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
sphelps@andrew.cmu.edu
(412) 268-8745

Piazza, Gianluca (Gian)
Professor – ECE; Director – Nanofab
piazza@ece.cmu.edu
(412)-268-7762

Keywords
MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS

Pileggi, Larry
Tanoto Professor – ECE
pileggi@ece.cmu.edu
(412)-268-6774

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 – CSD; Associate Professor – ECE
aplatzer@cs.cmu.edu
(412)-268-1558
Prelich-Knight, Lyz
Academic Services Coordinator – ECE
lyz@ece.cmu.edu

Racko, Angela
Finance and Business Associate – ECE
amracko@andrew.cmu.edu

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

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

Ramsey, Erika
Temporary Employee Services - Finance and Business Associate – ECE
eramsey@andrew.cmu.edu

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

Rengarajan, Vijay
Post Doctoral Research Associate – ECE
vargarai@andrew.cmu.edu

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

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

Rosvanis, James
Nanofab Technician – Nanofab
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

S

Caruso, Stephanie Academic Program Advisor – ECE  (650)-335-2853  stephaniec@cmu.edu

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

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

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

Networking, Security, Systems, Software-defined networking, Internet-of-Things security
Seshan, Srinivasan Associate Professor – CS; Courtesy Professor – ECE
srini@cmu.edu

Keywords

Network protocols, applications, distributed systems, mobile computing, wireless networks
Shah, Nihar Assistant Professor – MLD, CSD; Courtesy Professor – ECE
nihars@andrew.cmu.edu

Keywords

Modern superscalar processor design, instruction-level parallelism and code scheduling
Sieviorek, Daniel Buhl University Professor – HCII, ECE, CSD
dps@ece.cmu.edu

Keywords

Computer architecture, reliability, context aware mobile computing
Singh, Rita Courtesy Professor – ECE; Senior Systems Scientist – LTI
rsingh@andrew.cmu.edu

Keywords

Networked embedded control systems, sensors/actuators networks, control theory
Sirbu, Marvin Professor – EPP; Courtesy Professor – ECE
sirbu@cmu.edu

Keywords

Telecommunications policy and economics
Sitti, Metin Professor – MechE, RI; Courtesy Professor – ECE; Affiliated Faculty – DSSC
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 (412)-268-6033 robsmith@cmu.edu

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

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

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

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

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

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

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

Keywords

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, CSD, 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 Associate – ECE (412)-268-8745
kayleigh@ece.cmu.edu

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

Keywords

Statistically based CAD/CAM of VLSI circuits

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

Keywords

Audio signal processing, music and sound recording applications

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

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

Keywords

Network security; Wireless networking

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

Keywords

Autonomous agents, distributed control, power systems, cascading failures

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

Taylor, Rebecca Assistant Professor – MechE; Courtesy Professor – ECE bex@andrew.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 (412)-268-8091 towe@cmu.edu

Keywords

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

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

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

Vernon, David Teaching Faculty – ECE +250 78 592 74 70 vernon@cmu.edu

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

Vinayak, Rashmi Assistant Professor – CSD; Courtesy Professor – ECE rvinayak@cs.cmu.edu

Wong, Kai Adjunct Professor – ECE wangkai@andrew.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  Adjunct Professor – ECE  jaweldon@hawaii.edu

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

Wen, Tianlong  Post Doctoral Research Associate – Physics, DSSC  (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  rwill@andrew.cmu.edu

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

X

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

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

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

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

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

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

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
Yu, Zhiyi Adjunct Professor – ECE zhiyiyu@andrew.cmu.edu

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