Agarwal, Yuvraj  
Professor – ECE; Assistant Professor – CS  
yuvraja@andrew.cmu.edu

Andersen, David  
Adjunct Professor – ECE  
dqa2@andrew.cmu.edu

Anna, Shelley L.  
Associate Professor – MechE; Affiliated Faculty – DSSC  
sanna@andrew.cmu.edu

Bain, Jim  
Professor – ECE, MSE; Associate Director – DSSC  
jbain@ece.cmu.edu

Balram, Nikhil  
Adjunct Professor – ECE  
(412)-268-3602

Bauer, Lujo  
Associate Professor – ISR, ECE  
lbauer@cmu.edu

Beckmann, Nathan  
Courtesy Professor – ECE; Assistant Professor – CSD  
beckmann@cs.cmu.edu

Berger, Luc  
Professor Emeritus – Physics; Affiliated Faculty – DSSC  
lberger@andrew.cmu.edu

Berges, Mario  
Assistant Professor – CEE; Courtesy Professor – ECE  
marioberges@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  (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  (412)-268-2987  rblanton@andrew.cmu.edu

Keywords

Test and diagnosis of heterogeneous, integrated systems

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

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

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

Keywords

Formal hardware and software verification

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

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

Keywords

CAD and design of analog signal processing circuits and MEMS systems

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

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

Keywords

Optics, Neural Interfaces, Photonic Integrated Circuits, Plasmonics, Sensing
Chase, Steven  Courtesy  Professor – ECE  
schase@andrew.cmu.edu

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

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

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

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

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

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

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

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

Keywords
Hardware and software verification, automatic theorem proving, symbolic computation

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

Keywords
Usable privacy and security
Datta, Anupam  Associate  
Professor – CyLab, ECE

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

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

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

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

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

Eckhardt, Dave  Courtesy  
Professor – ECE; Assistant Teaching Professor – CS

Erdogmus, Hakan  Associate Teaching Professor – ECE

Faloutsos, Christos  Professor – CS; Courtesy Professor – ECE

Keywords  
Databases, data mining, multimedia indexing, performance evaluation

Falsafi, Babak  Adjunct  
Professor – ECE, CS

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

Fanti, Giulia  Assistant Professor – ECE  gfanti@andrew.cmu.edu
Fatahalian, Kayvon
Professor – ECE; Assistant Professor – CS
(412) 268-1234
kayvonf@cmu.edu

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

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

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

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

Ganger, Greg
Affiliated Faculty – CSD; Jatras Professor – ECE, CSD; Director – PDL
(412)-268-1297
ganger@ece.cmu.edu
Garba, Aminata  Assistant Teaching Professor – ECE
+250 78 152 04 72
aminata@ece.cmu.edu

Gellman, Andrew J.  Lord
Professor – ChemE; Professor – Chemistry; Affiliated Faculty – DSSC
ag4d@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
garth@cs.cmu.edu

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

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

Greve, David  Professor Emeritus – ECE
(412)-268-3707
dg07@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
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

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

Keywords

Tribology, nanomanufacturing, multiscale 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

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

Keywords

Electromagnetics, electromechanics, electrohydrodynamics, microfluidics

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

Keywords

Computer architecture, high-level hardware description and synthesis

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

Keywords

Haptics, microassembly, dynamically stable mobile robots
Hong, Jason Courtesy  
Professor – ECE; Associate Professor – CS  
jasonh@cs.cmu.edu

Hug, Gabriela  
Adjunct Faculty – ECE  
ghug@ece.cmu.edu

Keywords

power systems, optimization, control, energy networks, decomposition

I

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

Keywords

Mobile and embedded computing, scalable systems, sensor networks, emergency communications systems

Ilic, Jovan  
Associate Teaching Professor – ECE  
(412)-268-3943  
jilic@ece.cmu.edu

Ilic, Marija  
Professor Emeritus – ECE  
(650) 714 1200  
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

J

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

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

Jayan, B. Reeja  
Courtesy Professor – ECE  
(412)-268-3943  
bjayan@andrew.cmu.edu

Jhon, Myung S.  
Professor – ChemE; Affiliated Faculty – DSSC  
(412)-268-2233  
mj3a@andrew.cmu.edu

Jia, Limin  
Assistant Research Professor – CyLab, INI, ECE  
(412)-268-4605  
liminjia@andrew.cmu.edu
Keywords
Language-based security, programming languages, logic and program verification.

Joe-Wong, Carlee Assistant Professor – ECE
650-335-2832
cjowong@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

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

Keywords
Computer vision, autonomous systems, medical robotics

Kar, Soummya Associate Research Professor – ECE
(412)-268-8962
soumyak@andrew.cmu.edu

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

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

Keywords

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

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

Keywords

distributed embedded systems, survivable system architecture, dependability

Kovačević, Jelena Hamerschlag University Professor – ECE; University Professor – BME

Keywords

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

Kozuch, Michael A. Adjunct Professor – ECE

Krogh, Bruce H. Professor – ECE

(412)-268-6491

kim@ece.cmu.edu

(412)-268-5225

koopman@cmu.edu

(412) 268-3299

jelenak@cmu.edu

(412)-268-2472

krogh@ece.cmu.edu

(412)-268-4981

skkelly@andrew.cmu.edu

pkk@ece.cmu.edu

+250 78 484 08 55

skompall@andrew.cmu.edu

mkozuch@andrew.cmu.edu

jelenak@cmu.edu

mkozuch@andrew.cmu.edu

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

Keywords

Magnetic recording, optical recording and ferroelectric materials

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

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

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
(412)-268-2706
dl0p@andrew.cmu.edu

Keywords

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

Li, Ming Adjunct Professor – ECE
mingli1@andrew.cmu.edu
(412)-268-6507

Li, Xin Adjunct Faculty – ECE
xinli@ece.cmu.edu

Keywords

Integrated circuits, computer-aided design

Lohn, Jason D. Adjunct Faculty – ECE
(650)-335-2802
jason.lohn@sv.cmu.edu
Low, Tze Meng Assistant Research Professor – ECE (412) 268-6756 lowt@andrew.cmu.edu

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

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

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

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

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

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

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

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

Mohimani, Hosein Courtesy Professor – ECE; Assistant Professor – CBD hoseinm@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

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 Assistant Teaching Professor – ECE, SDS 412-268-8364 lhmoya@andrew.cmu.edu

Mukherjee, Tamal Professor – ECE (412)-268-8522
Keywords
Analog/RF/MEMS/biofluidic microsystem design
tamal@ece.cmu.edu

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

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

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

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

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

Ozdoganlar, O. Burak  
Affiliated Faculty – DSSC; Associate Professor – MechE

Péraire, Cécile  
Assistant Teaching Professor – ECE

Püschel, Markus  
Adjunct Professor – ECE

Pandey, Manish  
Adjunct Faculty – ECE

Paramesh, Jeyanandh  
Associate Professor – ECE

Parno, Bryan  
Associate Professor – CSD, ECE

Pasareanu, Corina  
Senior Research Scientist – ECE-SV

Pavlo, Andy  
Courtesy Professor – ECE

Peha, Jon  
Professor – EPP; Courtesy Professor – ECE

Perrig, Adrian  
Adjunct Professor – ECE; Professor – EPP, CS; Technical Director – CyLab
Keywords

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

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

Keywords

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

Pileggi, Larry Tanoto Professor – ECE
pileggi@ece.cmu.edu

Keywords

Design, implementation and modeling of electronic integrated systems

Platzer, Andre Assistant Professor – CS, ECE
aplatzer@cs.cmu.edu

Keywords

Verification of embedded control systems, hybrid dynamical systems, cyber-physical systems, distributed hybrid systems, logic and formal methods

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

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

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

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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

Keywords

Electronic circuits, systems design automation

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

Keywords

Embedded systems, distributed systems, sensor networks

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

Keywords

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

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

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

Shah, Nihar Assistant Professor – MLD, CSD; Courtesy Professor – ECE
nihars@andrew.cmu.edu

Keywords

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

Shen, John Professor – ECE
jpshen@cmu.edu

Keywords

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

Siewiorek, Daniel Buhl University Professor – HCII, ECE, CSD
dps@ece.cmu.edu

Keywords

Computer architecture, reliability, context aware mobile computing

Singh, Rita Courtesy Professor – ECE; Senior Systems Scientist – LTI
rsinh@andrew.cmu.edu

Sinopoli, Bruno Professor – MechE, ECE, RI
brunos@ece.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

Skowronski, Marek  Courtesy Professor – ECE; Professor – MSE; Affiliated Faculty – DSSC  msds@andrew.cmu.edu

Smailagic, Asim  Courtesy Professor – ECE; Research Professor – ICES; Director – LINCS  asim@ices.cmu.edu

Keywords

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

Smola, Alex  Professor – MLD; Courtesy Professor – ECE  smola@andrew.cmu.edu

Sokalski, Vincent  Assistant Research Professor – MSE; Affiliated Faculty – DSSC  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

Keywords

Computer networks, distributed systems, pervasive computing
Stern, Richard  Professor – ECE, LTI, CS, BME; Lecturer – Music  (412)-268-2535

Keywords

Automatic speech recognition, auditory perception, signal processing
Strojwas, Andrzej  Keithley  Professor – ECE  (412)-268-3530

Keywords

Statistically based CAD/CAM of VLSI circuits
Sullivan, Tom  Associate Teaching Professor – ECE; Lecturer – Music  (412)-268-3351

Keywords

Audio signal processing, music and sound recording applications

Keywords

Network security; Wireless networking
Talukdar, Sarosh  Professor  Emeritus – ECE  (412)-268-8778

Keywords

Autonomous agents, distributed control, power systems, cascading failures
Tang, Xiaoying  Adjunct  Professor – ECE

Keywords

Tayur, Sridhar  Courtesy  Professor – ECE; Professor – Tepper  412-268-3584
**Thomas, Donald** Professor Emeritus – ECE  
(412)-268-3545  
thomas@ece.cmu.edu

**Keywords**

Computer-aided design of single chip heterogeneous multiprocessing systems

**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.

**U**

**Ustun, Taha Selim** Assistant Teaching Professor – ECE  
+250 78 659 24 78  
tahas@andrew.cmu.edu

**Keywords**

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

**V**

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

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

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

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

**W**

**Wang, Kai** Adjunct Professor – ECE  
wangkai@andrew.cmu.edu
Wasserman, Anthony  Adjunct Professor – ECE  (650)-335-2807  tonyw@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

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

Keywords
Magnetic nanotechnology

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

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

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

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