Agarwal, Yuvraj  Courtesy  Assistant Professor – ECE; Assistant Professor – CS  
Andersen, David  Adjunct Professor – ECE  
Anna, Shelley L.  Associate Professor – MechE; Affiliated Faculty – DSSC  
Antaki, James  Professor – BME; Courtesy Professor – ECE  

Bain, Jim  Professor – ECE, MSE; Associate Director – DSSC  

Keywords
Thin-film magnetic device design, fabrication, and testing; magnetic disk and tape recording  
Balram, Nikhil  Adjunct Professor – ECE  
Bauer, Lujo  Associate Professor – ISR, ECE  

Keywords
Computer security, access control, program monitoring, security automata, policy specification  
Beckmann, Nathan  Courtesy Professor – ECE; Assistant Professor – CSD  
Berger, Luc  Emeritus – Physics; Affiliated Faculty – DSSC  
Berges, Mario  Assistant Professor – CEE; Courtesy Professor – ECE  
Bhaqavatula, 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  
(412)-968-9110  
rpb@ece.cmu.edu

Keywords

Distributed fault-tolerant computing and computer networks

**Bishop, Cathy** Instructor – ECE  
mbishop@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  
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  
(412)-268-3390  
mcarlisl@andrew.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
Chen, Tsuhan Adjunct Professor – ECE

Keywords

Multimedia coding and streaming, computer vision, pattern recognition, computer graphics, multimodal biometrics
Chi, Yuejie Adjunct Professor – ECE
Choset, Howie Professor – RI; Courtesy Professor – ECE

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

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

Keywords

Hardware and software verification, automatic theorem proving, symbolic computation
Cranor, Lorrie F. Professor – ISR, EPP; Courtesy Professor – ECE

Chase , Steven Courtesy schase@andrew.cmu.edu
Professor – ECE
Chen , Tsuhan Adjunct tsuhan@ece.cmu.edu
Professor – ECE

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 (412)-268-2495 choset@cs.cmu.edu

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 nicolasc@andrew.cmu.edu
Professor – ECE (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 (412)-268-2628 edmund.clarke@cs.cmu.edu

Keywords

Hardware and software verification, automatic theorem proving, symbolic computation
Cranor , Lorrie F. Professor – ISR, EPP; Courtesy lorrie@cs.cmu.edu Professor – ECE (412)-268-7534
Keywords

Usable privacy and security

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

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

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

Dey, Anind K.  Associate Professor – HCII; Courtesy Professor – ECE
anind@cs.cmu.edu

Dolan, John  Courtesy Professor – ECE; Senior Systems Scientist – RI
(412)-268-7988
jmd@cs.cmu.edu

Keywords

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

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

Fanti, Giulia Assistant Professor – ECE .gfanti@andrew.cmu.edu
Fatahalian, Kayvon Courtesy (412) 268-1234
Professor – ECE; Assistant kayvonf@cmu.edu
Professor – CS
Fedder, Gary Howard M. (412)-268-8443
Wilkoff Professor – ECE, RI; Co-Director – MEMS; Affiliated fedder@ece.cmu.edu
Faculty – DSSC

Keywords

Microelectromechanical systems (MEMS), RF MEMS, inertial/bio/chemical sensors, MEMS CAD, microrobotics

Feenstra, Randy Professor – Physics; Courtesy feenstra@andrew.cmu.edu
Professor – ECE

Keywords

Molecular beam epitaxy, scanning tunneling microscopy

Franchetti, Franz Professor – ECE; Faculty franzf@ece.cmu.edu
Director of ITS – ECE

Keywords

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

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

Keywords

Security, privacy, formal methods, and programming languages.

Ganger, Greg Affiliated (412)-268-1297
ganger@ece.cmu.edu
Faculty – CSD; Jatras
Professor – ECE, CSD; Director – PDL
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

Gellman, Andrew J. Lord Professor – ChemE; Professor – Chemistry; Affiliated Faculty – DSSC
ag44b@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

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

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

Keywords

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

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

Keywords

Semiconductor device physics and semiconductor process technology, sensors

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

ejasonh@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

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

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

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 cjoewong@andrew.cmu.edu

Keywords
Network economics and pricing, cloud computing, mobile/edge computing
Jordan, Angel Emeritus University (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 tk@cs.cmu.edu

Keywords
Computer vision, autonomous systems, medical robotics
Kar, Soumya Associate Research Professor – ECE (412)-268-8962 soumyak@andrew.cmu.edu

Keywords
Distributed Information Processing, Multi-Agent Decision Making, Adaptive Stochastic Systems
Kavcic, Aleksandar Adjunct Faculty – ECE akavcic@andrew.cmu.edu
Kelly, Shawn K, Courtesy Professor – ECE; Senior Systems Scientist – ICES skkelly@andrew.cmu.edu
Khosla, Pradeep 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

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

**Keywords**

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

**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

---

11
Mai, Ken  Principal Systems Scientist – ECE  
Keywords
Digital circuit design, computer architecture, memory design, reconfigurable computing

Majetic, Sara A.  Professor – Physics; Courtesy Professor – ECE; Affiliated Faculty – DSSC  
Keywords
Computer-aided design and manufacturing of VLSICs

Marculescu, Diana  David Edward Schramm Professor – ECE; Associate Department Head for Academic Affairs – ECE  
Keywords
VLSI/computer architecture, energy aware computing, CAD for integrated systems

Marculescu, Radu  Professor – ECE  
Keywords
Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.

Maxion, Roy  Research Professor – CS; Courtesy Professor – ECE  
Keywords
Computer dependability and security; information warfare; intrusion detection; system diagnosis

McHenry, Michael E.  Professor – MSE; Affiliated Faculty – DSSC  
keywords
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 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

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

Keywords

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

O

O'Hallaron, David  Professor – CS, ECE; Director – Intel Research Pittsburgh  (412)-268-8199  droh@cs.cmu.edu
Ozdoganlar, O. Burak  
Affiliated Faculty – DSSC; Associate Professor – MechE  
(412)-268-9890  
ozdoganlar@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)

Pandey, Manish  
Adjunct Faculty – ECE  
mpandey@andrew.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

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

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

15
networks) as well as on trusted computing.

**Piazza, Gianluca**  
(Prof) Professor – ECE; Director – Nanofab  
Keywords  
MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS  
Number: (412)-268-7762  
Email: piazza@ece.cmu.edu

**Pileggi, Larry**  
(Tanoto) Professor – ECE  
Keywords  
Design, implementation and modeling of electronic integrated systems  
Number: (412)-268-6774  
Email: pileggi@ece.cmu.edu

**Platzer, Andre**  
(Prof) Assistant Professor – CS, ECE  
Keywords  
Verification of embedded control systems, hybrid dynamical systems, cyber-physical systems, distributed hybrid systems, logic and formal methods  
Number: (412)-268-1558  
Email: aplatzer@cs.cmu.edu

**Rajkumar, Raj**  
(Prof) Professor – ECE, CS; Co-Director – GM-CM CRL; Director – Real-Time and Multimedia Systems Laboratory  
Keywords  
Embedded and real-time systems  
Number: (412)-268-8707  
Email: raj@ece.cmu.edu

**Ramakrishnan, Bhiksha Raj**  
(Courtesy) Professor – ECE; Associate Professor – LTI  
Number: bhiksha@cs.cmu.edu

**Reddy, Raj**  
(Courtesy) Professor – ECE; Mozah Bint Nasser University Professor – CS  
Number: reddy@cs.cmu.edu

**Ricketts, David**  
(Adjunct) Professor – ECE  
Keywords  
Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits  
Number: ricketts@ece.cmu.edu
Rohrer, Ronald A. Professor Emeritus – ECE  
rohrer@ece.cmu.edu

**Keywords**

Electronic circuits, systems design automation

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

Salvador, Paul A. Associate Professor – MSE; Affiliated Faculty – DSSC  
paul7@andrew.cmu.edu

Sankaranarayanan, Aswin Assistant Professor – ECE  
saswin@ece.cmu.edu

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

Savvides, Marios Research Professor – ECE; Director – CyLab Biometrics Center  
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

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
rsingh@andrew.cmu.edu

Keywords

Networked embedded control systems, sensors/actuators networks, control theory

Sirbu, Marvin Professor – EPP; Courtesy Professor – ECE
sirbu@cmu.edu

Sirbu, Marvin Professor – EPP; Courtesy Professor – ECE
(412)-268-3436

Keywords

Networked embedded control systems, sensors/actuators networks, control theory
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

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

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

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

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  bxiaoyin@ece.cmu.edu

Tayur, Sridhar  Courtesy  Professor – ECE; Professor – Tepper  412-268-3584  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

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

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

Tahas@andrew.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

Verissimo, Paulo Adjunct Professor – ECE

PJV@DI.FC.UL.PT

Vernon, David Teaching Faculty – ECE

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

Tonyw@cmu.edu

Weiss, Lee Courtesy Professor – ECE; Research Professor – RI

Lew@andrew.cmu.edu

Weldon, Jeffrey Associate Professor – ECE

Jweldon@ece.cmu.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

Keywords

Magnetic nanotechnology

Xu, Yinliang Adjunct Professor – ECE

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 Adjunct Professor – ECE

Keywords

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

Yu, Zhiyi Adjunct Professor – ECE

Keywords

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

Zhang, Hui Professor – CS; Courtesy Professor – ECE
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