

[Agarwal , Yuvraj](#) Courtesy
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](#) 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

A

(412) 268-7328
yuvraja@andrew.cmu.edu

dga2@andrew.cmu.edu

(412)-268-6492
sanna@andrew.cmu.edu

antaki@andrew.cmu.edu

B

(412)-268-3602
jbain@ece.cmu.edu

(412)-268-9745
lbauer@cmu.edu

beckmann@cs.cmu.edu

(412)-268-2919
lberger@andrew.cmu.edu

412-268-4572
marioberges@cmu.edu

(412)-268-3026
kumar@ece.cmu.edu

Keywords

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

[Bianchini, Ronald](#) Adjunct (412)-968-9110
Professor – ECE 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 (412)-268-3851

Professor – CS; Director – CyLab; Professor – ECE dbrumley@ece.cmu.edu

[Bryant, Randal](#) (412)-268-8821

Professor – CS; Courtesy bryant@cs.cmu.edu

Professor – ECE

Keywords

Formal hardware and software verification

C

[Carley, Kathleen](#) (412)-268-6016

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

[Carley, Rick](#) ST Microelectronics (412)-268-3597

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

Keywords

CAD and design of analog signal processing circuits and MEMS systems

[Chamanzar, Maysam](#) Assistant 412-268-3390

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](#) Adjunct Professor – ECE

yuejiec@andrew.cmu.edu

[Choset,](#)

(412)-268-2495

[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

[Christin, Nicolas](#) Associate Research
Professor – EPP; Assistant Research
Professor – CyLab; Courtesy
Professor – ECE

(412)-268-4432

nicolasc@andrew.cmu.edu

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,](#)

(412)-268-7534

[Lorrie F.](#) Professor – ISR, EPP; Courtesy
Professor – ECE

lorrie@cs.cmu.edu

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 ftorre@cs.cmu.edu
Professor – ECE; Research
Scientist – RI

[Dey , Anind K.](#) Associate
Professor – HCII; Courtesy
Professor – ECE

[Dolan , John](#) Courtesy
Professor – ECE; Senior Systems
Scientist – RI

D

danupam@andrew.cmu.edu

(412)-268-7264

rfd@andrew.cmu.edu

anind@cs.cmu.edu

(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

[Erdogmus , Hakan](#) Associate Teaching
Professor – ECE

E

davide+receptionist@cs.cmu.edu

hakan.erdogmus@sv.cmu.edu

[Faloutsos ,](#)

[Christos](#) Professor – CS; Courtesy
Professor – ECE

F

(412)-268-1457

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
Professor – CS kayvonf@cmu.edu

[Fedder, Gary](#) Howard M. (412)-268-8443

Wilkoff Professor – ECE, RI; Co-
Director – MEMS; Affiliated
Faculty – DSSC fedder@ece.cmu.edu

Keywords

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

[Feenstra, Randy](#) (412)-268-6961

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

Keywords

Molecular beam epitaxy, scanning
tunneling microscopy

[Franchetti, Franz](#) (412)-268-8297

Professor – ECE; Faculty
Director of ITS – ECE 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 (412) 268-3992

Professor – ISR, CS; Courtesy
Professor – ECE mfredrik@andrew.cmu.edu

Keywords

Security, privacy, formal methods, and
programming languages.

G

[Ganger, Greg](#) Affiliated (412)-268-1297

Faculty – CSD; Jatras
Professor – ECE, CSD; Director – PDL ganger@ece.cmu.edu

Keywords

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

[Garba , Aminata](#) Assistant Teaching +250 78 152 04 72

Professor – ECE

aminata@ece.cmu.edu

[Gellman , Andrew J.](#) Lord

(412)-268-3848

Professor – ChemE; Professor – Chemistry; Affiliated

Faculty – DSSC

ag4b@andrew.cmu.edu

[Ghose , Saugata](#) Systems

(412)-268-9192

Scientist – ECE

saugatag@andrew.cmu.edu

[Gibbons , Phil](#) Professor – ECE

pgibbons@andrew.cmu.edu

[Gibson ,](#)

(412)-268-5890

[Garth](#) Professor – CS; Courtesy

Professor – ECE; Affiliated

Faculty – DSSC

garth@cs.cmu.edu

Keywords

Computer architecture, operating
systems, file systems, disk arrays

[Gligor , Virgil](#) Professor – ECE; Co-

(412)-268-9833

Director – CyLab

virgil@andrew.cmu.edu

[Goldstein , Seth](#) Associate

(412)-268-3828

Professor – CSD; Courtesy

Professor – ECE

seth@cs.cmu.edu

Keywords

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

[Greve , David](#) Professor

(412)-268-3707

Emeritus – ECE

dg07@andrew.cmu.edu

Keywords

Semiconductor device physics and
semiconductor process technology,
sensors

[Griss , Martin L.](#) Adjunct

(650)-335-2805

Professor – ECE

martin.griss@west.cmu.edu

[Grover , Pulkit](#) Assistant

412-268-3644

Professor – ECE

pgrover@ece.cmu.edu

H

[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, 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

[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 jasonh@cs.cmu.edu

Professor – ECE; Associate

Professor – CS

[Hug , Gabriela](#) Adjunct Faculty – ECE ghug@ece.cmu.edu

Keywords

power systems, optimization, control,
energy networks, decomposition

I

[Iannucci , Bob](#) Director – CyLab Mobility (650) 714 1200

Research Center; Distinguished Service roberti@andrew.cmu.edu

Professor – ECE, Carnegie Mellon

Silicon Valley

Keywords

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

[Ilic , Jovan](#) Associate Teaching (412)-268-3943

Professor – ECE

jlilic@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 abe.ishihara@sv.cmu.edu

Professor – ECE

[Islam , Mohammad F.](#) Assistant (412)-268-8999

Professor – ChemE, MSE; Courtesy

mohammad@andrew.cmu.edu

Professor – ECE

J

[Jackson , Collin](#) Adjunct

collin.jackson@sv.cmu.edu

Professor – ECE

[Jahanian , Farnam](#) Vice President (412) 268-3363

for Research – CMU; Courtesy

farnam@andrew.cmu.edu

Professor – ECE

[Jhon ,](#) (412)-268-2233

[Myung S.](#) Professor – ChemE; Affiliated mj3a@andrew.cmu.edu

Faculty – DSSC

[Jia , Limin](#) Assistant Research (412)-268-4605

Professor – CyLab, INI, ECE

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 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

[Kanade, Takeo](#) U.A. and Helen Whitaker Professor – CS, RI; Courtesy Professor – ECE

(412)-268-3016

tk@cs.cmu.edu

Keywords

Computer vision, autonomous systems, medical robotics

[Kar, Soumya](#) 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 pkk@ece.cmu.edu
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 (412)-268-6491
Professor – ECE kim@ece.cmu.edu

Keywords

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

[Kompalli , Suryaprakash](#) Assistant +250 78 484 08 55
Teaching Professor – ECE skompall@andrew.cmu.edu

[Koopman , Philip](#) Associate (412)-268-5225
Professor – ECE, CS koopman@cmu.edu

Keywords

distributed embedded systems,
survivable system architecture,
dependability

[Kova#evi# , Jelena](#) Hamerschlag (412) 268-3299
University Professor – ECE; University jelenak@cmu.edu
Professor – BME

Keywords

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

[Kozuch , Michael A.](#) Adjunct mkozuch@andrew.cmu.edu
Professor – ECE

[Krogh , Bruce H.](#) Professor – ECE (412)-268-2472
krogh@ece.cmu.edu

Keywords

Synthesis and verification of embedded
control software, distributed control
strategies, distributed supervisory
control, information and control in

wireless sensor networks, discrete event and hybrid dynamic systems
[Kryder, Mark](#) 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

L

[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

[Li, Xin](#) Adjunct Faculty – ECE

(412)-268-6507

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

M

[Mai , Ken](#) Principal Systems
Scientist – ECE

(412)-268-8335
kenmai@ece.cmu.edu

Keywords

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

[Majetich ,](#)

(412)-268-3105

[Sara A.](#) Professor – Physics; Courtesy
Professor – ECE; Affiliated
Faculty – DSSC

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 ,](#)

(412)-268-2703

[Michael E.](#) Professor – MSE; Affiliated
Faculty – DSSC

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
[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
lhmoia@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

O

[O'Hallaron ,](#)

(412)-268-8199

[David](#) Professor – CS, ECE; Director – Intel
Research Pittsburgh

droh@cs.cmu.edu

Keywords

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

[Ozdoganlar , O. Burak](#) Affiliated
Faculty – DSSC; Associate
Professor – MechE

(412)-268-9890
ozdoganlar@cmu.edu

P

[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 networks) as well as on trusted computing.

[Piazza , Gianluca](#) (412)-268-7762
[\(Gian\)](#) Professor – ECE; Director – Nanofab

Keywordspiazza@ece.cmu.edu

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

[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

R

(412)-268-8707

[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

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

[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
marioos@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

(412)-268-8734
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

[Shen , John](#) Professor – ECE

jpshe@cmu.edu

Keywords

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

[Siewiorek , Daniel](#) Buhl University
Professor – HCII, ECE, CSD

(412)-268-2570
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

[Sinopoli ,
Bruno](#) Professor – MechE, ECE, RI

(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 ,](#) (412)-268-3632
[Metin](#) Professor – MechE, RI; Courtesy sitti@cmu.edu
Professor – ECE; Affiliated
Faculty – DSSC

Keywords

Micro/nano-robotics, biologically
inspired systems, nanotechnology,
MEMS/NEMS

[Skowronski , Marek](#) Courtesy (412)-268-2710
Professor – ECE; Professor – MSE; Affiliated mss@andrew.cmu.edu
Faculty – DSSC

[Smailagic , Asim](#) Courtesy (412)-268-7863
Professor – ECE; Research asim@ices.cmu.edu
Professor – ICES; Director – LINCS

Keywords

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

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

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

[Song , Dawn](#) Adjunct Professor – ECE xds@andrew.cmu.edu

[Sreenath , Koushil](#) Courtesy koushils@andrew.cmu.edu
Professor – ECE; Assistant
Professor – RI

[Stancil , Daniel](#) Adjunct ddstancil@ncsu.edu
Professor – ECE

Keywords

Wireless communications,
nanophotonics, spin wave devices

[Stenkiste , Peter](#) Professor – ECE, CS (412)-268-3261
prs@cs.cmu.edu

Keywords

Computer networks, distributed
systems, pervasive computing

[Stern ,](#) (412)-268-2535
[Richard](#) Professor – ECE, LTI, CS, BME; Lecturer – Music
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

T

(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

[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 (412)-268-8091
and Ethel Grobstein Memorial towe@cmu.edu
Professor – MSE; Director – CNXT

Keywords

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

[Treuille , Adrien](#) Courtesy treuille@cs.cmu.edu
Professor – ECE; Assistant
Professor – CS

U

[Ustun , Taha Selim](#) Assistant Teaching +250 78 659 24 78
Professor – ECE tahas@andrew.cmu.edu

Keywords

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

V

[Veloso ,
Manuela](#) Professor – CS; Courtesy mmv@cs.cmu.edu
Professor – ECE

[Verissimo , Paulo](#) Adjunct pjv@di.fc.ul.pt
Professor – ECE

[Vernon , David](#) Teaching Faculty – ECE +250 78 592 74 70
vernon@cmu.edu

[Vinayak , Rashmi](#) Assistant rvinayak@cs.cmu.edu
Professor – CSD; Courtesy
Professor – ECE

W

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

[Weiss , Lee](#) Courtesy lew@andrew.cmu.edu
Professor – ECE; Research

Professor – RI

[Weldon , Jeffrey](#) Associate (412)-268-6940
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 white@ece.cmu.edu

Keywords

Magnetic nanotechnology

X

[Xu , Yinliang](#) Adjunct Professor – ECE danielxu@andrew.cmu.edu

Y

[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.](#) Professor – ChemE; Courtesy Professor – ECE (412)-268-2235 ydstie@andrew.cmu.edu

[Ye , Terry](#) Adjunct Professor – ECE (412) 268-5401 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 h Zhang@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 (412)-268-8373
Professor – ECE; Professor – MSE, Physics; Director – DSSC
jzhu@ece.cmu.edu

Keywords

Micromagnetics, magnetoelectronic devices, magnetic recording