

[Agarwal , Yuvraj](#) Courtesy
Professor – ECE; Assistant
Professor – CS

[Andersen , David](#) Adjunct
Professor – ECE

[Anna , Shelley L.](#) Associate
Professor – MechE; Affiliated
Faculty – DSSC

[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

Keywords

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

A

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

dga2@andrew.cmu.edu

(412)-268-6492
sanna@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

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

[Randal](#) Professor – CS; Courtesy
Professor – ECE bryant@cs.cmu.edu

Keywords

Formal hardware and software
verification

C

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

[Kathleen](#) Professor – ISR; Courtesy
Professor – ECE kathleen.carley@cs.cmu.edu

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

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

Keywords

CAD and design of analog signal
processing circuits and MEMS systems

[Carlisle , Martin](#) Teaching mcarlisl@andrew.cmu.edu

Professor – INI; Director of Academic
Affairs – INI; Courtesy Professor – ECE

[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

D

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

[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

E

[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

F

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

(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
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

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

[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.

G

[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 +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

jjilic@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

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

[Jayan , B. Reeja](#) Courtesy

bjayan@andrew.cmu.edu

Professor – ECE

[Jhon ,](#)

(412)-268-2233

[Myung S.](#) Professor – ChemE; Affiliated
Faculty – DSSC

mj3a@andrew.cmu.edu

[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

[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, 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 skkelly@andrew.cmu.edu

Professor – ECE; Senior Systems
Scientist – ICES

[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

[Kitani , Kris](#) Courtesy kmkitani@andrew.cmu.edu

Professor – ECE; Assistant Research
Professor – RI

[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
Professor – BME jelenak@cmu.edu

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 , 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 ,	(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
Mohimani , Hosein Courtesy Professor – ECE; Assistant Professor – CBD	hoseinm@andrew.cmu.edu
Morgan ,	(412)-268-2672
Granger Professor – ECE; Lord Professor – EPP	gm5d@andrew.cmu.edu

Keywords

Technology and policy including climate
change and electric power

Morris ,	(412)-609-5000
James Professor – CS; Courtesy Professor – ECE	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
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Keywords

Computer architecture, compilers,
operating systems, parallel processing

Moya , Linda Assistant Teaching Professor – ECE, SDS	412-268-8364 lhmoaya@andrew.cmu.edu
Mukherjee , Tamal Professor – ECE	(412)-268-8522

Keywords tamal@ece.cmu.edu

Analog/RF/MEMS/biofluidic
microsystem design

[Mutlu , Onur](#) Adjunct Professor – ECE onor@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 412-268-1199
Professor – ECE srinivas@andrew.cmu.edu

Keywords

computational sensors, computer
graphics, computer vision, image
processing, optics

[Negi , Rohit](#) Professor – ECE; Affiliated (412)-268-6264
Faculty – DSSC negi@ece.cmu.edu

Keywords

Wireless systems, networking, sensor
networks, signal processing, coding for
communications, information theory

[Noh , Hae Young](#) Assistant
Professor – CEE; Courtesy noh@cmu.edu
Professor – ECE

O

[O'Hallaron ,
David](#) Professor – CS, ECE; Director – Intel (412)-268-8199
Research Pittsburgh dfoh@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; 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 piazza@ece.cmu.edu

Keywords

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

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

Keywords

Design, implementation and modeling of electronic integrated systems

[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

[Rajkumar, Raj](#) Professor – ECE, CS; Co-Director – GM-CM (412)-268-8707
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

Professor – ECE; Mozah Bint Nasser University Professor – CS

[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

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 jeff4@andrew.cmu.edu

Professor – RI; Courtesy

Professor – ECE

[Sekar, Vyas](#) Assistant Professor – ECE vsekar@ece.cmu.edu

Keywords

Networking, Security, Systems, Software-defined networking, Internet-of-Things security

[Seshan, Srinivasan](#) Associate (412)-268-8734

Professor – CS; Courtesy

srini@cmu.edu

Professor – ECE

Keywords

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

[Shah, Nihar](#) Assistant nihars@andrew.cmu.edu

Professor – MLD, CSD; Courtesy

Professor – ECE

[Shen, John](#) Professor – ECE jpshen@cmu.edu

Keywords

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

[Siewiorek, Daniel](#) Buhl University (412)-268-2570

Professor – HCII, ECE, CSD

dps@ece.cmu.edu

Keywords

Computer architecture, reliability, context aware mobile computing

[Singh, Rita](#) Courtesy rsingh@andrew.cmu.edu

Professor – ECE; Senior Systems

Scientist – LTI

[Sinopoli, Bruno](#) (412)-268-9432

Professor – MechE, ECE, RI

brunos@ece.cmu.edu

Keywords

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

[Sirbu ,](#)

(412)-268-3436

[Marvin](#) Professor – EPP; Courtesy
Professor – ECE

sirbu@cmu.edu

Keywords

Telecommunications policy and
economics

[Sitti ,](#)

(412)-268-3632

[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

(412)-268-2710

Professor – ECE; Professor – MSE; Affiliated
Faculty – DSSC

mss@andrew.cmu.edu

[Smailagic , Asim](#) Courtesy

(412)-268-7863

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 (408) 759-1044

Professor – ECE

smola@andrew.cmu.edu

[Sokalski , Vincent](#) Assistant

(412)-268-8628

Research Professor – MSE; Affiliated
Faculty – DSSC

vsokalsk@andrew.cmu.edu

[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

[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

T

[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

[Tayur, Sridhar](#) Courtesy Professor – ECE; Professor – Tepper
412-268-3584
stayur@andrew.cmu.edu

[Thomas , Donald](#) Professor (412)-268-3545
Emeritus – ECE 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.

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 ,](#) mmv@cs.cmu.edu

[Manuela](#) Professor – CS; Courtesy 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
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

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.](#)

(412)-268-2235

[Erik](#) Professor – ChemE; Courtesy
Professor – ECE

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 (412)-268-8945
Professor – ECE h Zhang@cs.cmu.edu

Keywords

Computer networks, internet, resource
management, multimedia

[Zhang, Jia](#) Associate Teaching jia.zhang@sv.cmu.edu
Professor – ECE

[Zhang, Joy](#) Adjunct Professor – ECE (650)-335-2824
joy@cs.cmu.edu

[Zhang, Pei](#) Associate Research (650)-335-2823
Professor – ECE 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