

[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

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(412)-268-3026  
[kumar@ece.cmu.edu](mailto: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](mailto:rpb@ece.cmu.edu)

### Keywords

Distributed fault-tolerant computing and computer networks

[Bishop, Cathy](#) Instructor – ECE [mcbishop@andrew.cmu.edu](mailto:mcbishop@andrew.cmu.edu)

[Blanton, Shawn](#) Professor – ECE (412)-268-2987

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### 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](mailto:timxb@andrew.cmu.edu)

[Brumley, David J.](#) Associate (412)-268-3851

Professor – CS; Director – CyLab; Professor – ECE [dbrumley@ece.cmu.edu](mailto:dbrumley@ece.cmu.edu)

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

Professor – CS; Courtesy [bryant@cs.cmu.edu](mailto: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](mailto:kathleen.carley@cs.cmu.edu)  
Professor – ECE

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

Professor – ECE; Affiliated [lrc@ece.cmu.edu](mailto: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](mailto:mchamanz@andrew.cmu.edu)

### Keywords

Optics, Neural Interfaces, Photonic Integrated Circuits, Plasmonics, Sensing

[Chase, Steven](#) Courtesy  
Professor – ECE

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[Chen, Tsuhan](#) Adjunct  
Professor – ECE

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### Keywords

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

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Professor – ECE

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### 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

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### 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

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### Keywords

Hardware and software verification, automatic theorem proving, symbolic computation

[Cranor,](#)

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

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## 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](mailto:ftorre@cs.cmu.edu)  
Professor – ECE; Research  
Scientist – RI

[Dey , Anind K.](#) Associate [anind@cs.cmu.edu](mailto:anind@cs.cmu.edu)  
Professor – HCII; Courtesy  
Professor – ECE

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

## Keywords

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

[Eckhardt , Dave](#) Courtesy [davide+receptionist@cs.cmu.edu](mailto:davide+receptionist@cs.cmu.edu)  
Professor – ECE; Assistant Teaching  
Professor – CS

[Erdogmus , Hakan](#) Associate Teaching [hakan.erdogmus@sv.cmu.edu](mailto:hakan.erdogmus@sv.cmu.edu)  
Professor – ECE

[Faloutsos ,](#)  
[Christos](#) Professor – CS; Courtesy (412)-268-1457  
Professor – ECE [christos@cs.cmu.edu](mailto:christos@cs.cmu.edu)

## Keywords

Databases, data mining, multimedia  
indexing, performance evaluation

[Falsafi , Babak](#) Adjunct [babak.falsafi@epfl.ch](mailto:babak.falsafi@epfl.ch)  
Professor – ECE, CS

## Keywords

Computer architecture, memory  
systems, multiprocessor architecture,

## D

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architectural support for gigascale integration, design evaluation tools

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Director – MEMS; Affiliated

Faculty – DSSC

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#### Keywords

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

[Feenstra, Randy](#)

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Professor – Physics; Courtesy

Professor – ECE

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#### Keywords

Molecular beam epitaxy, scanning tunneling microscopy

[Franchetti, Franz](#) Associate

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Professor – ECE; Faculty Director of

ITS – ECE

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#### 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

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Professor – ISR, CS; Courtesy

Professor – ECE

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#### Keywords

Security, privacy, formal methods, and programming languages.

## G

[Ganger, Greg](#) Affiliated

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Faculty – CSD; Jatras

Professor – ECE, CSD; Director – PDL

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## Keywords

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

[Garba , Aminata](#) Assistant Teaching +250 78 152 04 72  
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[Gibbons , Phil](#) Professor – ECE [pgibbons@andrew.cmu.edu](mailto:pgibbons@andrew.cmu.edu)

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Professor – ECE; Affiliated

Faculty – DSSC

## Keywords

Computer architecture, operating  
systems, file systems, disk arrays

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Professor – ECE

## Keywords

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

[Greve , David](#) Professor (412)-268-3707

Emeritus – ECE [dg07@andrew.cmu.edu](mailto:dg07@andrew.cmu.edu)

## Keywords

Semiconductor device physics and  
semiconductor process technology,  
sensors

[Griss , Martin L.](#) Adjunct (650)-335-2805

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[Grover , Pulkit](#) Assistant 412-268-3644

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## H

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Professor – ECE

**Keywords**

Scheduling of computer systems,  
workload characterization, heavy-tailed  
distributions

[Higgs III,](#)

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[Fred](#) Professor – MechE; Courtesy  
Professor – ECE

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**Keywords**

Tribology, nanomanufacturing, multi-  
scale particle flows

[Hills , Alex](#) Distinguished Service

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Professor – EPP; Courtesy  
Professor – ECE

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**Keywords**

Research in wireless technology and  
telecommunications policy

[Hoburg , James](#) Emeritus

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**Keywords**

Electromagnetics, electromechanics,  
electrohydrodynamics, microfluidics

[Hoe ,](#)

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[James C.](#) Professor – ECE, CS; Co-  
Director – CALCM

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**Keywords**

Computer architecture, high-level  
hardware description and synthesis

[Hollis , Ralph L.](#) Research

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Professor – RI; Courtesy  
Professor – ECE

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**Keywords**

Haptics, microassembly, dynamically  
stable mobile robots

[Hong , Jason](#) Courtesy

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Professor – ECE; Associate  
Professor – CS

[Hug , Gabriela](#) Adjunct Faculty – ECE

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## Keywords

power systems, optimization, control,  
energy networks, decomposition

## I

[Iannucci, Bob](#) Director – CyLab Mobility (650) 714 1200  
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Professor – ECE, Carnegie Mellon  
Silicon Valley

## Keywords

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

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Professor – ECE [jilic@ece.cmu.edu](mailto:jilic@ece.cmu.edu)

[Ilic, Marija](#) Professor – ECE (412)-268-9520

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## Keywords

Large-scale systems modeling and  
simulation; power systems control  
and pricing algorithms; critical  
infrastructures/interdependencies

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## J

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## Keywords

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



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**Keywords**

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

[Jordan , Angel](#) Emeritus University  
Professor – ECE, RI

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**Keywords**

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

[Joshi , Gauri](#) Adjunct Faculty – ECE

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**Keywords**

performance analysis, cloud computing, machine learning

**K**

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

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**Keywords**

Computer vision, autonomous systems, medical robotics

[Kar , Soumya](#) Associate Research Professor – ECE

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**Keywords**

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

[Kavcic , Aleksandar](#) Adjunct Faculty – ECE

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[Kelly , Shawn K.](#) Courtesy Professor – ECE; Senior Systems Scientist – ICES

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[Khosla , Pradeep K.](#) Adjunct Professor – ECE; Chancellor – University of California, San Diego

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### 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

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### Keywords

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

[Kompalli , Suryaprakash](#) Assistant  
Teaching Professor – ECE

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### Keywords

distributed embedded systems, survivable system architecture, dependability

[Kova#evi# , Jelena](#) Hamerschlag  
University Professor – ECE; University  
Professor – BME

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### Keywords

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

[Kozuch , Michael A.](#) Adjunct  
Professor – ECE

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### 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

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Professor – ECE; Affiliated  
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## Keywords

Magnetic recording, optical recording  
and ferroelectric materials

[Kumar , Swarun S.](#) Assistant  
Professor – ECE

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## L

[Lambeth , David N.](#) Professor  
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## Keywords

Physical and chemical sensors,  
transducers, MEMS, magnetism,  
materials, thin films, data storage and  
RF devices

[Lane , Ian R.](#) Associate Research  
Professor – ECE

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## Keywords

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

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## Keywords

Integrated circuits, computer-aided  
design

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## M

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## Keywords

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

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## Keywords

Computer-aided design and manufacturing of VLSICs

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## Keywords

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

[Marculescu , Diana](#) David Edward Schramm Professor – ECE; Associate Department Head for Academic Affairs – ECE

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## Keywords

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

[Maxion , Roy](#) Research Professor – CS; Courtesy Professor – ECE

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## Keywords

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

[McHenry ,](#)

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**Keywords**

Technology and policy including climate  
change and electric power

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Head - Research & Strategic  
Initiatives – ECE; Philip L.  
and Marsha Dowd University  
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**Keywords**

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

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**Keywords**

Computer architecture, compilers,  
operating systems, parallel processing

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**Keywords**

Analog/RF/MEMS/biofluidic  
microsystem design

[Mutlu , Onur](#) Adjunct Professor – ECE [onur@cmu.edu](mailto:onur@cmu.edu)

**Keywords**

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

**N**

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## Keywords

Digital Design, Embedded Systems,  
Networks

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## Keywords

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

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## Keywords

fault tolerance, distributed systems,  
embedded systems, mobile systems

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## Keywords

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

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## O

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## Keywords

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

[Ozdoganlar , O. Burak](#) Affiliated  
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### Keywords

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

[Paramesh, Jeyanandh](#) Associate Professor – ECE (412)-268-1290  
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### 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  
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[Pasareanu, Corina](#) Senior Research Scientist – ECE-SV (650)-604-4767  
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### 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  
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### 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 (412)-268-7762  
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### Keywords

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

[Pileggi, Larry](#) Tanoto Professor – ECE (412)-268-6774

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Design, implementation and modeling  
of electronic integrated systems

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**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-  
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CRL; Director – Real-Time and  
Multimedia Systems Laboratory

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**Keywords**

Embedded and real-time systems

[Ramakrishnan , Bhiksha Raj](#) Courtesy  
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**Keywords**

Nanoscale electronics, nanoscale  
devices, nonlinear dynamics, analog  
circuits

[Rohrer , Ronald A.](#) Professor  
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**Keywords**

Electronic circuits, systems design  
automation

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## Keywords

Embedded systems, distributed systems, sensor networks

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## Keywords

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

## S

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[Satyanarayanan , Mahadev](#) Carnegie Professor – CS; Courtesy Professor – ECE

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## Keywords

Biometric identification, Cyber-Physical Security, Authentication, Pattern recognition

[Schlesinger , T.E. \(Ed\)](#) Adjunct Professor – ECE

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## Keywords

Semiconductor devices, information storage, optoelectronic systems

[Schneider , Jeff](#) Research Professor – RI; Courtesy Professor – ECE

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## Keywords

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

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**Keywords**

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

[Shen , John](#) Professor – ECE [jpshe@cmu.edu](mailto: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](mailto:dps@ece.cmu.edu)

**Keywords**

Computer architecture, reliability, context aware mobile computing

[Sinopoli , Bruno](#) Professor – MechE, ECE, RI (412)-268-9432 [brunos@ece.cmu.edu](mailto: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](mailto:sirbu@cmu.edu)

**Keywords**

Telecommunications policy and economics

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

**Keywords**

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

[Skowronski , Marek](#) Courtesy (412)-268-2710  
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**Keywords**

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

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Professor – ECE

**Keywords**

Wireless communications,  
nanophotonics, spin wave devices

[Steenkiste , Peter](#) Professor – ECE, CS (412)-268-3261  
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**Keywords**

Computer networks, distributed  
systems, pervasive computing

[Stern , Richard](#) Professor – ECE, LTI, CS, BME; Lecturer – Music  
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**Keywords**

Automatic speech recognition, auditory  
perception, signal processing

[Strojwas , Andrzej](#) Keithley (412)-268-3530  
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**Keywords**

Statistically based CAD/CAM of VLSI  
circuits

[Sullivan , Tom](#) Associate Teaching Professor – ECE; Lecturer – Music (412)-268-3351  
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**Keywords**

Audio signal processing, music and sound recording applications

**T**

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**Keywords**

Network security; Wireless networking

[Talukdar , Sarosh](#) Professor Emeritus – ECE (412)-268-8778  
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**Keywords**

Autonomous agents, distributed control, power systems, cascading failures

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

Computer-aided design of single chip heterogeneous multiprocessing systems

[Tonguz , Ozan](#) Professor – ECE (412)-268-5991  
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**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  
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**Keywords**

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

[Treuille , Adrien](#) Courtesy Professor – ECE; Assistant Professor – CS (412)-268-8091  
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### Keywords

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

## V

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### Keywords

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

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### Keywords

Magnetic nanotechnology

## X

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## Keywords

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

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## Keywords

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

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## Keywords

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

## Z

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## Keywords

Sensor Networks, Embedded Systems

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## Keywords

Computer networks, internet, resource management, multimedia

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**Keywords**

Micromagnetics, magnetoelectronic devices, magnetic recording