

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

[Amvrosiadis , George](#) Assistant
Research Professor – ECE

[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
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Keywords

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

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Keywords

Distributed fault-tolerant computing and computer networks

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

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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

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Keywords

Formal hardware and software verification

C

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Keywords

CAD and design of analog signal processing circuits and MEMS systems

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Keywords

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

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Keywords

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

[Chi, Yuejie](#) Associate 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
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Professor – ECE

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Keywords

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

[Cranor,](#)

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Keywords

Usable privacy and security

D

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Professor – ECE

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Keywords

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

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Keywords

Databases, data mining, multimedia indexing, performance evaluation

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Keywords

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

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Wilkoff Professor – ECE, RI; Co- fedder@ece.cmu.edu

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Keywords

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

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Keywords

Molecular beam epitaxy, scanning tunneling microscopy

[Franchetti ,](#)

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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

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Keywords

Security, privacy, formal methods, and programming languages.

G

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Keywords

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

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Keywords

Computer architecture, operating
systems, file systems, disk arrays

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Keywords

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

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Keywords

Semiconductor device physics and
semiconductor process technology,
sensors

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H

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Keywords

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

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Keywords

Tribology, nanomanufacturing, multi-scale particle flows

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Keywords

Research in wireless technology and telecommunications policy

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Keywords

Electromagnetics, electromechanics, electrohydrodynamics, microfluidics

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Keywords

Computer architecture, high-level hardware description and synthesis

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Keywords

Haptics, microassembly, dynamically stable mobile robots

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Keywords

power systems, optimization, control, energy networks, decomposition

I

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Keywords

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

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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

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Keywords

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

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Keywords

performance analysis, cloud computing, machine learning

K

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Keywords

Computer vision, autonomous systems, medical robotics

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Keywords

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

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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

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Keywords

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

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Keywords

distributed embedded systems, survivable system architecture, dependability

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University Professor – ECE; University
Professor – BME

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Keywords

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

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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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Keywords

Magnetic recording, optical recording
and ferroelectric materials

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

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

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[Laughlin , David](#) ALCOA
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Keywords

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

[Li , Ming](#) Adjunct Professor – ECE mingli1@andrew.cmu.edu
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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

[Majetich ,](#)

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Keywords

Computer-aided design and manufacturing of VLSICs

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Keywords

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

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Keywords

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

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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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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

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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

fault tolerance, distributed systems,
embedded systems, mobile systems

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Keywords

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

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Keywords

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

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Keywords

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

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Keywords

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

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Keywords

Analog, Mixed-signal and RF/millimeter-wave Integrated Circuit Design, Digitally-assisted analog/RF IC design

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Keywords

Telecommunications, wireless networks, internet, spectrum management, communications for homeland security, electronic commerce, developing countries, universal service, security

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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.

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

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Design, implementation and modeling
of electronic integrated systems

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

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[Rajkumar, Raj](#)

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Embedded and real-time systems

[Ramakrishnan, Bhiksha Raj](#) Courtesy
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Nanoscale electronics, nanoscale
devices, nonlinear dynamics, analog
circuits

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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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Keywords

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

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Keywords

Semiconductor devices, information
storage, optoelectronic systems

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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

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Keywords

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

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Keywords

Computer architecture, reliability,
context aware mobile computing

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Keywords

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

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Keywords

Telecommunications policy and
economics

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Keywords

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

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Keywords

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

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Keywords

Wireless communications,
nanophotonics, spin wave devices

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Keywords

Computer networks, distributed
systems, pervasive computing

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Keywords

Automatic speech recognition, auditory perception, signal processing

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Keywords

Statistically based CAD/CAM of VLSI circuits

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Keywords

Audio signal processing, music and sound recording applications

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Keywords

Network security; Wireless networking

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Keywords

Autonomous agents, distributed control, power systems, cascading failures

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Keywords

Computer-aided design of single chip heterogeneous multiprocessing systems

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Keywords

Optical networks, wireless networks and communications systems, and high-speed networking

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Keywords

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

U

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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

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Keywords

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

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Keywords

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

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Keywords

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

Z

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Keywords

Computer networks, internet, resource management, multimedia

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Keywords

Sensor Networks, Embedded Systems

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Keywords

Micromagnetics, magnetoelectronic devices, magnetic recording