

[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

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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
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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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Scientist – RI

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Professor – ECE

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Keywords

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

E

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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

Director – MEMS; Affiliated

Faculty – DSSC

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

[Fredrikson , Matt](#) Assistant

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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

[Iannucci , Bob](#) Distinguished Service
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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

[Kova#evi# , Jelena](#) Hamerschlag
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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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Keywords

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

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Keywords

Integrated circuits, computer-aided
design

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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

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

[Marculescu , Radu](#) Kav#i#-Moura Professor of Electrical & Computer Engineering – ECE

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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

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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

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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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Keywords

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

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Keywords

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

R

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Keywords

Embedded and real-time systems
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Keywords

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

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architecture, system design methods,
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Keywords

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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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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.

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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

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Keywords

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Keywords

Micromagnetics, magnetoelectronic devices, magnetic recording