

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

[Andersen , David](#) Adjunct
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[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.
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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

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Keywords

Test and diagnosis of heterogeneous, integrated systems

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Professor – ECE

Keywords

Formal hardware and software verification

C

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Keywords

CAD and design of analog signal processing circuits and MEMS systems

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

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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
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Keywords

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

[Clarke Jr., Edmund](#) FORE
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Keywords

Hardware and software verification, automatic theorem proving, symbolic computation

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Keywords

Usable privacy and security

[Datta , Anupam](#) Associate
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[Davis , Robert](#) John and
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Professor – ECE

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Scientist – RI

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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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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

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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.

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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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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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Professor – CS

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Keywords

power systems, optimization, control,
energy networks, decomposition

I

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Professor – ECE, Carnegie Mellon

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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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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

[Kim , Hyong](#) Drew D. Perkins (412)-268-6491
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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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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
[Kumar, Swarun S.](#) Assistant Professor – ECE

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L

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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

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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

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

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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.

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

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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

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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

Computer networks, internet, resource management, multimedia

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Keywords

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Keywords

Micromagnetics, magnetoelectronic
devices, magnetic recording