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  
Bauer, Lujo  Associate  Professor – ISR, ECE  

Keywords  
Thin-film magnetic device design, fabrication, and testing; magnetic disk and tape recording  

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

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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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Keywords

Formal hardware and software verification

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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

Chase, Steven Courtesy Professor – ECE

Chen, Tsuhan Adjunct Professor – ECE

Keywords

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

Chi, Yuejie Associate Professor – ECE

Choset, Howie Professor – RI; Courtesy Professor – ECE

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

Keywords

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

Cranor, Lorrie F. Professor – ISR, EPP; Courtesy Professor – ECE

Keywords

Usable privacy and security

Datta, Anupam Professor – ECE; Associate Professor – CyLab
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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

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, Franz** 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

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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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Professor – ECE

Keywords

Tribology, nanomanufacturing, multiscale particle flows

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Professor – ECE

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

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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

Johnson, Aaron  Courtesy  Professor – ECE, RI; Assistant Professor – MechE

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Keywords

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

Joshi, Gauri  Assistant Professor – ECE

Keywords

performance analysis, cloud computing, machine learning

K

Kainerstorfer, Jana  Courtesy  Professor – ECE

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Keywords

Computer vision, autonomous systems, medical robotics

Kar, Soummya  Associate  Professor – ECE

Keywords

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

Kavcic, Aleksandar  Adjunct  Faculty – ECE

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Khosla, Pradeep K.  Adjunct  Professor – ECE; Chancellor – University of California, San Diego
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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**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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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

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

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.

Maxion, Roy Research Professor – CS; Courtesy Professor – ECE
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Keywords

Computer dependability and security; information warfare; intrusion detection; system diagnosis
**McHenry, Michael E.** Professor – MSE; Affiliated Faculty – DSSC

**Mengshoel, Ole** Principal Systems Scientist – ECE

**Miskov-Zivanov, Natasa** Adjunct Faculty – ECE

**Mohimani, Hosein** Courtesy Professor – ECE; Assistant Professor – CBD

**Morgan, Granger** Professor – ECE; Lord Professor – EPP

**Keywords**

Technology and policy including climate change and electric power

**Morris, James** Professor – CS; Courtesy Professor – ECE

**Moura, José** Associate Department Head - Research & Strategic Initiatives – ECE; Philip L. and Marsha Dowd University Professor – ECE, BME; Affiliated Faculty – DSSC

**Keywords**

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

**Mowry, Todd** Professor – CS; Courtesy Professor – ECE; Co-Director – CALCM

**Keywords**

Computer architecture, compilers, operating systems, parallel processing

**Moya, Linda** Assistant Teaching Professor – ECE, SDS

**Mukherjee, Tamal** Professor – ECE

**Keywords**

Analog/RF/MEMS/biofluidic microsystem design

**Mutlu, Onur** Adjunct Professor – ECE

**Keywords**


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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Paramesh, Jeyanandh
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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.

**Piazza, Gianluca** (Gian) Professor – ECE; Director – Nanofab

Keywords

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

**Pileggi, Larry Tanoto** Professor – ECE

Keywords

Design, implementation and modeling of electronic integrated systems

**Platzer, Andre** Assistant Professor – CSD; Associate Professor – ECE

Keywords

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

**Rajkumar, Raj** Professor – ECE, CSD; Co-Director – GM-CM CRL; Director – Real-Time and Multimedia Systems Laboratory

Keywords

Embedded and real-time systems

**Ramakrishnan, Bhiksha Raj**Courtesy Professor – ECE; Associate Professor – LTI

**Reddy, Raj** Courtesy Professor – ECE; Mozah Bint Nasser University Professor – CS

**Ricketts, David** Adjunct Professor – ECE
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

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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

T

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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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<thead>
<tr>
<th>Name</th>
<th>Title and Affiliations</th>
<th>Keywords</th>
<th>Phone Number</th>
<th>Email</th>
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</thead>
<tbody>
<tr>
<td>Tayur, Sridhar</td>
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<td>Computer-aided design of single chip heterogeneous multiprocessing systems</td>
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<td>Veloso, Manuela</td>
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<tr>
<td>Vinayak, Rashmi</td>
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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

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

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Keywords

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Sensor Networks, Embedded Systems

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Keywords

Micromagnetics, magnetoelectronic devices, magnetic recording