A

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Professor – ECE; Assistant
Professor – CS

Andersen, David  Adjunct
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Anna, Shelley L. Associate
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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 – ECE, ISR

Keywords

Computer security, access control, program monitoring, security automata, policy specification

Berger, Luc Professor Emeritus – Physics; Affiliated
Faculty – DSSC

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

Bianchini, Ronald Adjunct
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B
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

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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  
Assistant Research Professor – CyLab; Associate Research Professor – ECE

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

Keywords

Hardware and software verification, automatic theorem proving, symbolic computation

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

Keywords

Usable privacy and security

Datte, Anupam  
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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

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

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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

Kavcic, Aleksandar Adjunct Faculty – ECE
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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
Kompalli, Suryaprakash Assistant Teaching Professor – ECE
Koopman, Philip Associate Professor – ECE, CS

Keywords

distributed embedded systems, survivable system architecture, dependability
Kovačević, Jelena Hamerschlag University Professor – ECE; University Professor – BME

Keywords

Signal processing, biomedical, wavelets, frames, multiresolution, communications
Kozuch, Michael A. Adjunct Professor – ECE
Krogh, Bruce H. Professor – ECE

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
Kryder, Mark Emeritus University Professor – ECE; Affiliated Faculty – DSSC

Keywords

Magnetic recording, optical recording and ferroelectric materials
Kumar, Swarun S. Assistant Professor – ECE
Lambeth, David N. Professor Emeritus – ECE

Keywords

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

Lane, Ian R. Associate Research Professor – ECE

Keywords

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

Li, Ming Assistant Professor – JIE; Adjunct Professor – ECE

Keywords

Integrated circuits, computer-aided design

Liu, Zhaojun Assistant Professor – JIE; Visiting Professor – ECE

Keywords

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Lucia, Brandon Assistant Professor – ECE

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Keywords

Computer-aided design and manufacturing of VLSICs

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

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

Computer dependability and security; information warfare; intrusion detection; system diagnosis
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
Narasimhan, Srinivasa
Associate Professor – RI; Courtesy Professor – ECE
Keywords
computational sensors, computer graphics, computer vision, image processing, optics
Narasimhan, Priya
Professor – ECE (412)-268-8801
Keywords
fault tolerance, distributed systems, embedded systems, mobile systems
Negi, Rohit
Professor – ECE; Affiliated Faculty – DSSC (412)-268-6264
Keywords
Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory
Noh, Hae Young
Assistant Professor – CEE; Courtesy Professor – ECE
O’Hallaron, David
Professor – CS, ECE; Director – Intel Research Pittsburgh (412)-268-8199
Keywords
Scientific computing, parallel computing, computational database systems, and virtualization
Ozdoganlar, O. Burak
Affiliated Faculty – DSSC; Associate Professor – MechE (412)-268-9890
Keywords
Péraire, Cécile
Assistant Teaching Professor – ECE
Püschel, Markus
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Keywords

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

**Paramesh, Jeyanandh** Associate Professor – ECE
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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

**Pileggi, Larry** Tanoto Professor – ECE (412)-268-6774
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Keywords

Design, implementation and modeling of electronic integrated systems

Platzer, Andre, Assistant Professor – CS, ECE
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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-Director – GM-CM CRL; Director – Real-Time and Multimedia Systems Laboratory
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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

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

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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

Specification, verification, reliability, security, distributed systems, software engineering, programming languages

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Keywords

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Keywords

Computer networks, internet, resource management, multimedia
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Keywords

Micromagnetics, magnetoelectronic devices, magnetic recording