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

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Keywords
Computer security, access control, program monitoring, security automata, policy specification
Berger, Luc Professor Emeritus – Physics; Affiliated Faculty – DSSC
Berges, Mario Assistant Professor – CEE; Courtesy Professor – ECE
Bhaqavatula, 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 Professor – ECE

Keywords
Distributed fault-tolerant computing and computer networks

Bintrim, Grace Administrative Coordinator – ECE
Bishop, Cathy Instructor – ECE
Blanton, Shawn Professor – ECE

Keywords
Test and diagnosis of heterogeneous, integrated systems

Bollapragada, Vara Post Doctoral Research Associate – ECE
Boni, Dante Equipment Technician – Nanofab
Bosle, Kevin Senior Buyer – ECE
Brown, Timothy X Distinguished Service Professor – EPP, ECE
Brumley, David J. Associate Professor – CSD; Director – CyLab; Professor – ECE
Bryant, Randal Professor – CS; Courtesy Professor – ECE

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

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Keywords

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

Chung, Pil Seung  Post Doctoral Research Associate – ChemE, DSSC  

Keywords

Usable privacy and security

Davis, Robert  John and Claire Bertucci Distinguished Professor – MSE; Courtesy Professor – ECE  

Keywords

Dey, Anind K.  Associate Professor – HCII; Courtesy Professor – ECE

Keywords

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

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Keywords
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Keywords

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

Feenstra, Randy Professor – Physics; Courtesy Professor – ECE

Keywords

Molecular beam epitaxy, scanning tunneling microscopy

Ferris, Sherri Administrative Coordinator – ECE

Fox, Toni Sponsored Research Assistant – CyLab

Franchetti, Franz Professor – ECE; Faculty Director of ITS – ECE

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 Professor – ISR, CS; Courtesy Professor – ECE

Keywords

Security, privacy, formal methods, and programming languages.

Frost, Brittany Senior Sponsored Research Assistant – CyLab

Frost, Donna International Scholar Coordinator – ECE

Furuta, Masaki Post Doctoral Research Associate – ECE

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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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</tbody>
</table>
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.  

Joe-Wong, Carlee  Assistant Professor – ECE  

Keywords  
Network economics and pricing, cloud computing, mobile/edge computing  

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

Jordan, Angel  Emeritus University Professor – ECE, RI  

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  

Kainerstorfer, Jana  Courtesy Professor – ECE  
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Keywords
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

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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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Integrated circuits, computer-aided design

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Keywords

Digital circuit design, computer architecture, memory design, reconfigurable computing

Majetich , Sara A. Professor – Physics; Courtesy Professor – ECE; Affiliated Faculty – DSSC

Keywords

Computer-aided design and manufacturing of VLSICs

Marculescu , Wojciech Professor Emeritus – ECE

Keywords

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

Marculescu , Diana David Edward Schramm Professor – ECE; Associate Department Head for Academic Affairs – ECE

Keywords

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

Marculescu , Radu Kaviani-Moura Professor of Electrical & Computer Engineering – ECE

Keywords

Computer dependability and security; information warfare; intrusion detection; system diagnosis

McHenry , Michael E. Professor – MSE; Affiliated Faculty – DSSC

Keywords
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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

Moya, Linda Assistant Teaching Professor – ECE, SDS
Mukherjee, Tamal Professor – ECE

Keywords

Analog/RF/MEMS/biofluidic microsystem design

Mutlu, Onur Adjunct Professor – ECE

Keywords

Computer architecture, hardware/software interaction, operating systems, fault tolerance

N

Nace, Bill Associate Teaching Professor – ECE

Keywords

Digital Design, Embedded Systems, Networks

Narasimhan, Priya Professor – ECE

Keywords

fault tolerance, distributed systems, embedded systems, mobile systems

Narasimhan, Srinivasa Associate Professor – RI; Courtesy Professor – ECE

Keywords

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

Negi, Rohit Professor – ECE; Affiliated Faculty – DSSC

Keywords

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

Nguyen, Kimmy Event and Project Coordinator – ECE

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Peha, Jon Professor – EPP; Courtesy Professor – ECE

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

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Perrig, Adrian Adjunct Professor – ECE; Professor – EPP, CS; Technical Director – CyLab

Keywords
Information and systems security, focusing on network security (internet, mobile computing, and sensor networks) as well as on trusted computing.

Phelps, Shelley Finance and Business Associate – ECE

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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
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Keywords

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

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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

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

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Keywords

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Keywords
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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

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Keywords

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Keywords

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