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Keywords

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

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Bauer, Lujo  Associate
Professor – ECE, ISR

Belotti, Dave  Shop Machinist – ECE

Benicky, Sheryl  Research
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Keywords

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

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Keywords

Coding and signal processing for data storage, biometrics, pattern recognition

Bianchini, Ronald  Adjunct Professor – ECE

Keywords

Distributed fault-tolerant computing and computer networks

Bishop, Cathy  Instructor – ECE
Blanton, Shawn Professor – ECE; Associate Director – JIE

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 – ECE, EPP
Brumley, David J.  Associate Professor – CS; 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

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Keywords

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Keywords

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

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Keywords

Hardware and software verification, automatic theorem proving, symbolic computation

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Keywords

Usable privacy and security

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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

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Keywords
Automatic performance tuning, digital signal processing transforms, advanced architectures

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Keywords
Security, privacy, formal methods, and programming languages.

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Keywords
Wireless systems, multimedia compression, signal processing/compression
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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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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

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

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Keywords

performance analysis, cloud computing, machine learning

Kanade, Takeo U.A. and Helen Whitaker Professor – CS, RI; Courtesy Professor – ECE

Keywords

Computer vision, autonomous systems, medical robotics

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Keywords
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

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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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</tbody>
</table>

**Keywords**

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

**Keywords**

Integrated circuits, computer-aided design
Majetich, Sara A. Professor – Physics; Courtesy Professor – ECE; Affiliated Faculty – DSSC
Keywords
Computer-aided design and manufacturing of VLSICs
Maly, Wojciech Professor Emeritus – ECE
Keywords
Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.
Marculescu, Radu Professor – ECE
Keywords
VLSI/computer architecture, energy aware computing, CAD for integrated systems
Maxion, Roy Research Professor – CS; Courtesy Professor – ECE
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
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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

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

fault tolerance, distributed systems, embedded systems, mobile systems
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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 | Associate Professor – ECE

Keywords

Analog, Mixed-signal and RF/millimeter-wave Integrated Circuit Design, Digitally-assisted analog/RF IC design

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Patterson, Carolyn | Administrative Coordinator – ECE
Patton, Ashley | Director of Engagement and Annual Giving – ECE
Pavlo, Andy | Courtesy Professor – ECE
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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**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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**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

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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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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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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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Keywords
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Keywords
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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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