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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
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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

Keywords

Test and diagnosis of heterogeneous, integrated systems

Bollapragada, Vara Post Doctoral Research Associate – ECE

Brown, Timothy X Distinguished Service Professor – ECE, EPP

Keywords

Formal hardware and software verification

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Carley, Rick ST Microelectronics Professor – ECE; Affiliated Faculty – DSSC (412)-268-3597 lrc@ece.cmu.edu

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

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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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Faloutsos, Christos  Professor – CS; Courtesy Professor – ECE

Keywords
Databases, data mining, multimedia indexing, performance evaluation

Falsafi, Babak  Adjunct Professor – ECE, CS

Keywords
Computer architecture, memory systems, multiprocessor architecture, architectural support for gigascale integration, design evaluation tools

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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
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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

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
Hoe, James C. Professor – ECE, CS; Co-Director – CALCM

Keywords

Computer architecture, high-level hardware description and synthesis

Hoffman, Steve Machine Shop
Foreman – ECE

Hollis, Ralph L. Research Professor – RI; Courtesy Professor – ECE

Keywords

Haptics, microassembly, dynamically stable mobile robots

Hong, Jason Courtesy Professor – ECE; Associate Professor – CS

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Keywords

power systems, optimization, control, energy networks, decomposition

Iannucci, Bob Director – CyLab Mobility Research Center; Distinguished Service Professor – ECE, Carnegie Mellon Silicon Valley

Keywords

Mobile and embedded computing, scalable systems, sensor networks, emergency communications systems

Ilic, Jovan Associate Teaching Professor – ECE

Ilic, Marija Professor – ECE

Keywords

Large-scale systems modeling and simulation; power systems control and pricing algorithms; critical infrastructures/interdependencies

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Jianjun, Wang  Associate Professor – ECE

Jiang, Xue  Assistant Professor – ECE

Jia, Limin  Assistant Research Professor – CyLab, INI, ECE

Jia, Limin  Assistant Research Professor – CyLab, INI, ECE

Keywords

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

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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

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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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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

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Keywords
Integrated circuits, computer-aided design

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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

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

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

Computer dependability and security; information warfare; intrusion detection; system diagnosis
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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
Computer architecture, hardware/software interaction, operating systems, fault tolerance
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Keywords  
Digital Design, Embedded Systems, Networks  
Narasimhan, Priya  
Professor – ECE  
Keywords  
fault tolerance, distributed systems, embedded systems, mobile systems  
Negi, Rohit  
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Keywords  
Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory  
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Professor – CS, ECE; Director – Intel Research Pittsburgh  
Keywords  
Scientific computing, parallel computing, computational database systems, and virtualization  
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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

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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**
Embedded and real-time systems

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Keywords

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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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

Sinopoli, Bruno Associate Professor – ECE, RI, MechE (412)-268-9432 brunos@ece.cmu.edu

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
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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Nanoelectronics, Heterogeneous Integration, RF and Analog Integrated Circuits, Biomedical Electronics, Carbon Nanotubes, Graphene

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Magnetic nanotechnology

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Keywords

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

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Keywords

Wireless communications, network science, security, social networks, cyber-physical networks

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Keywords

Multi-core processors, Network-on-chip, Digital VLSI

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Keywords

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

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Keywords
Sensor Networks, Embedded Systems

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Keywords
Computer networks, internet, resource management, multimedia

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Keywords
Micromagnetics, magnetoelectronic devices, magnetic recording

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