### Photo-board View | List View

<table>
<thead>
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<th>Name</th>
<th>Title/Locations</th>
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Keywords

Distributed fault-tolerant computing and computer networks

Bishop, Cathy Instructor – ECE  mcbishop@andrew.cmu.edu
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Keywords

Test and diagnosis of heterogeneous, integrated systems

Brown, Timothy X Distinguished Service Professor – ECE, EPP  timxb@andrew.cmu.edu
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Bryant, Randal Professor – CS; Courtesy Professor – ECE  bryant@cs.cmu.edu

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  schase@andrew.cmu.edu
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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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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

Molecular beam epitaxy, scanning tunneling microscopy

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Keywords

Automatic performance tuning, digital signal processing transforms, advanced architectures

G

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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

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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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Computer architecture, high-level hardware description and synthesis

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Keywords

Haptics, microassembly, dynamically stable mobile robots

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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

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Keywords

Robotics, Innovation, and Software Engineering, focusing on Technological Change and Technology Transfer
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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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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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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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Magnetic materials, material science, electron microscopy, x-ray diffraction

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Integrated circuits, computer-aided design

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

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Computer-aided design and manufacturing of VLSICs

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

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Keywords

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

**N**

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Keywords

Digital Design, Embedded Systems, Networks

**Narasimhan, Priya**  Professor – ECE  (412)-268-8801  priya@cs.cmu.edu

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

**Noh, Hae Young**  Assistant  noh@cmu.edu
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Professor – CS, ECE; Director – Intel Research Pittsburgh  
Keywords  
Scientific computing, parallel computing, computational database systems, and virtualization  
Ozdoganlar, O. Burak  
Affiliated Faculty – DSSC; Associate Professor – MechE  
Keywords  
Scientific computing, parallel computing, computational database systems, and virtualization

**Péraire, Cécile**  
Assistant Teaching Professor – ECE  
Keywords  
Fast computing, algorithms, applied mathematics, and signal processing (theory, software, hardware)

**Püschel, Markus**  
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Keywords  
Fast computing, algorithms, applied mathematics, and signal processing (theory, software, hardware)

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

**Perrig, Adrian**  
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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

Keywords

Design, implementation and modeling of electronic integrated systems

Platzer, Andre Assistant Professor – CS, ECE

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

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
Human/robot interaction, mobile robotics

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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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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

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

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

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

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Sensor Networks, Embedded Systems

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Keywords

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Keywords

Micromagnetics, magnetoelectronic devices, magnetic recording