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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
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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

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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

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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
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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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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Research in wireless technology and telecommunications policy

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

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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

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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

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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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Signal processing, biomedical, wavelets, frames, multiresolution, communications

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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

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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

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Keywords
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Keywords
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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

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**Keywords**

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

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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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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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Pavlo, Andy  Courtesy Professor – ECE  pavlo@cs.cmu.edu

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

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**Piazza, Gianluca (Gian)** Professor – ECE; Director – Nanofab
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MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS

**Pileggi, Larry** Tanoto Professor – ECE
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Design, implementation and modeling of electronic integrated systems

**Pileggi, Leah** Professional Writer – ECE; Professional Assistant – ECE
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**Platzer, Andre** Assistant Professor – CS, ECE
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Verification of embedded control systems, hybrid dynamical systems, cyber-physical systems, distributed hybrid systems, logic and formal methods

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**Racko, Angela** Finance and Business Associate – ECE
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**Rajkumar, Raj** Professor – ECE, CS; Co-Director – GM-CM CRL; Director – Real-Time and Multimedia Systems Laboratory
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Embedded and real-time systems
Keywords

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

Keywords

Electronic circuits, systems design automation

Keywords

Embedded systems, distributed systems, sensor networks

Keywords

VLSI CAD, algorithms, analog and digital circuits, automatic speech recognition

S

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Savvides, Marios Research Professor – ECE; Director – CyLab Biometrics Center (412)-268-1142 marioss@andrew.cmu.edu

Keywords
Biometric identification, Cyber-Physical Security, Authentication, Pattern recognition

Schlesinger, T.E. (Ed) Adjunct Professor – ECE ed@ece.cmu.edu

Keywords
Semiconductor devices, information storage, optoelectronic systems

Schneider, Jeff Research Professor – RI; Courtesy Professor – ECE jeff4@andrew.cmu.edu

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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

Shen, John Professor – ECE ipshen@cmu.edu

Keywords
Modern superscalar processor design, instruction-level parallelism and code scheduling

Siewiorek, Daniel Buhl University Professor – ECE, CSD; Director – HCII (412)-268-2570
Keywords

Computer architecture, reliability, context aware mobile computing

Sinopoli, Bruno
Associate Professor – ECE, RI, MechE

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Keywords

Networked embedded control systems, sensors/actuators networks, control theory

Sirbu, Marvin
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Keywords

Telecommunications policy and economics

Sitti, Metin
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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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Song, Dawn Adjunct Professor – ECE  
Sreenath, Koushil Courtesy Professor – ECE; Assistant Professor – RI  
Stancil, Daniel Adjunct Professor – ECE  

Keywords

Wireless communications, nanophotonics, spin wave devices  

Steenkiste, Peter Professor – ECE, CS  

Keywords

Computer networks, distributed systems, pervasive computing  

Stern, Richard Professor – ECE, LTI, CS, BME; Lecturer – Music  

Keywords

Automatic speech recognition, auditory perception, signal processing  

Stevens, Dave Facilities Assistant – ECE  

Keywords

Statistically based CAD/CAM of VLSI circuits  

Sullivan, Tom Associate Teaching Professor – ECE; Lecturer – Music  

Keywords

Audio signal processing, music and sound recording applications  

Sundar, Vignesh Post Doctoral Research Associate – DSSC  

Keywords

Network security; Wireless networking  

Tague, Patrick Associate Research Professor – CyLab, INI, ECE  

T
Talukdar, Sarosh  Professor  Emeritus – ECE  
Keywords  
Autonomous agents, distributed control, power systems, cascading failures 

Tang, Xiaoying  Adjunct Professor – ECE  
Thomas, Donald  Professor  Emeritus – ECE  
Keywords  
Computer-aided design of single chip heterogeneous multiprocessing systems 

Tims, Joshua  Systems Administrator – ECE  
Tomko, Jessica  Admissions Coordinator – ECE  
Tonguz, Ozan  Professor – ECE  
Keywords  
Optical networks, wireless networks and communications systems, and high-speed networking 

Towe, Elias  Professor – ECE; Albert and Ethel Grobstein Memorial Professor – MSE; Director – CNXT  
Keywords  
Photonics, optical networks, biophotonics, sensors, quantum phenomena in optical materials. 

Treuille, Adrien  Courtesy Professor – ECE; Assistant Professor – CS  
Keywords  
Power Systems Protection, Communication in Power Networks, Distributed Generation, Microgrids and Smartgrids 

Ustun, Taha Selim  Assistant Teaching Professor – ECE  
Keywords  

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</tbody>
</table>

**Keywords**

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

**Keywords**

Magnetic nanotechnology

**Keywords**

Magnetic nanotechnology
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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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Sensor Networks, Embedded Systems

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Keywords

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Keywords

Micromagnetics, magnetoelectronic devices, magnetic recording

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