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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

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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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Engagement and Annual Giving – ECE

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### Keywords

Usable privacy and security

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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; 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

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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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### 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

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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## K

## 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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#### 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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## Keywords

Integrated circuits, computer-aided design

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## Keywords

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**

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

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**Keywords**

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

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**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**

Computer architecture, compilers, operating systems, parallel processing

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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**

fault tolerance, distributed systems, embedded systems, mobile systems

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**Keywords**

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

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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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## Keywords

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

[Pileggi, Larry](#) Tanoto Professor – ECE (412)-268-6774  
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## Keywords

Design, implementation and modeling of electronic integrated systems

[Pileggi, Leah](#) Professional [leahp1@andrew.cmu.edu](mailto:leahp1@andrew.cmu.edu)  
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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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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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### 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

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

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

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## Keywords

Magnetic nanotechnology

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## Keywords

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

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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

Computer networks, internet, resource  
management, multimedia

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## Keywords

Sensor Networks, Embedded Systems

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## Keywords

Micromagnetics, magnetoelectronic  
devices, magnetic recording

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