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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

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Test and diagnosis of heterogeneous, integrated systems

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Keywords

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Keywords

CAD and design of analog signal processing circuits and MEMS systems

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Optics, Neural Interfaces, Photonic Integrated Circuits, Plasmonics, Sensing

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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
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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

Feenstra, Randy  Professor – Physics; Courtesy Professor – ECE

Keywords

Molecular beam epitaxy, scanning tunneling microscopy

Ferris, Sherri  Administrative Coordinator – ECE

Fox, Toni  Sponsored Research Assistant – CyLab

Franchetti, Franz  Associate Professor – ECE; Faculty Director of ITS – ECE

Keywords

Automatic performance tuning, digital signal processing transforms, advanced architectures

Fredrikson, Matt  Assistant Professor – ISR, CS; Courtesy Professor – ECE

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
Research in wireless technology and telecommunications policy

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Keywords
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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**

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Keywords

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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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distributed embedded systems, survivable system architecture, dependability
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Keywords

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

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Keywords
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Keywords
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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

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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
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Keywords
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fault tolerance, distributed systems, embedded systems, mobile systems
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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
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
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
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Keywords

Fast computing, algorithms, applied mathematics, and signal processing
(theory, software, hardware)

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Palko, Adam P. Finance and Research Administrator – ECE  (412)-268-2188

Paramesh, Jeyanandh Associate Professor – ECE  (412)-268-1290

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

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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
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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Savvides, Marios  Research Professor – ECE; Director – CyLab Biometrics Center  marioss@andrew.cmu.edu
Biometric identification, Cyber-Physical Security, Authentication, Pattern recognition

Schlesinger, T.E. (Ed) Adjunct Professor – ECE

Semiconductor devices, information storage, optoelectronic systems

Schneider, Jeff Research Professor – RI; Courtesy Professor – ECE

Scott, Stephanie Academic Program Advisor – ECE

Sekar, Vyas Assistant Professor – ECE

Networking, Security, Systems, Software-defined networking, Internet-of-Things security

Serafin, Stephen Senior Systems Engineer – ECE

Seshan, Srinivasan Associate Professor – CS; Courtesy Professor – ECE

Network protocols, applications, distributed systems, mobile computing, wireless networks

Shen, John Professor – ECE

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

Siewiorek, Daniel Buhl University Professor – ECE, CS; Director – HCII

Computer architecture, reliability, context aware mobile computing

Sinopoli, Bruno Associate Professor – ECE, RI, MechE
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

Tang, Xiaoying Adjunct Professor – ECE; Assistant Professor – JIE

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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.

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Ustun, Taha Selim Assistant Teaching Professor – ECE

Keywords

Power Systems Protection, Communication in Power Networks, Distributed Generation, Microgrids and Smartgrids

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Keywords
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Keywords
Magnetic nanotechnology

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Keywords
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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