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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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**Blanton, Shawn**  Professor – ECE

**Keywords**

Distributed fault-tolerant computing and computer networks

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Technician – Nanofab

**Boni, Dante**  Equipment
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**Keywords**

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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
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

mobile and space robotics, human-robot interaction, mechatronics, automated manufacturing

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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

Ferris, Sherri  Administrative Coordinator – ECE

Fox, Toni  Sponsored Research Assistant – CyLab

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

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
Scheduling of computer systems, workload characterization, heavy-tailed distributions

Keywords
Tribology, nanomanufacturing, multi-scale particle flows

Keywords
Research in wireless technology and telecommunications policy

Keywords
Electromagnetics, electromechanics, electrohydrodynamics, microfluidics

Keywords
Computer architecture, high-level hardware description and synthesis
Keywords
Haptics, microassembly, dynamically stable mobile robots

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

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Robotics, Innovation, and Software Engineering, focusing on Technological Change and Technology Transfer  

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Keywords
Advanced switch and network architectures, fault-tolerant network architectures, network management and control

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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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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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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
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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

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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
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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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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)

Pagliarini, Samuel Senior Research Scientist – ECE

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Pandey, Manish Adjunct Faculty – ECE

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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Patton, Ashley Director of Engagement and Annual Giving – ECE

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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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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

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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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Embedded and real-time systems
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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Biometrics Center  

Keywords

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

Schlesinger, T.E. (Ed)  
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Keywords

Semiconductor devices, information storage, optoelectronic systems

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

Keywords

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

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

Keywords

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

Shah, Nihar  
Assistant Professor – MLD, CSD; Courtesy Professor – ECE  

Keywords

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

Siewiorek, Daniel  
Buhl University Professor – HCII, ECE, CSD  

Keywords
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
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
Sensor Networks, Embedded Systems

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Keywords
Micromagnetics, magnetoelectronic devices, magnetic recording

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