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Keywords

Thin-film magnetic device design, fabrication, and testing; magnetic disk and tape recording

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Beckmann, Nathan | Courtesy Professor – ECE; Assistant Professor – CSD

Keywords

Computer security, access control, program monitoring, security automata, policy specification

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Beckmann, Nathan | Courtesy Professor – ECE; Assistant Professor – CSD


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Keywords
Coding and signal processing for data storage, biometrics, pattern recognition

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Keywords
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Keywords
Test and diagnosis of heterogeneous, integrated systems

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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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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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Conley, Kelley Research Administrator – ECE

Copetas, Catherine ECE/SCS Office of Engagement and Annual Giving – ECE

Cowan, Christina Director of Administrative Services & Office of the Department Head – ECE

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Keywords

Usable privacy and security

Datta, Anupam Associate Professor – CyLab, ECE

Davis, Robert John and Claire Bertucci Distinguished Professor – MSE; Courtesy Professor – ECE

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De La Torre Frade, Fernando Courtesy Professor – ECE; Research Scientist – RI

Dey, Anind K. Associate Professor – HCII; Courtesy Professor – ECE

Dolan, John Courtesy Professor – ECE; Senior Systems Scientist – RI
Keywords

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

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Erdogmus, Hakan Associate Teaching Professor – ECE

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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

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

Electromagnetics, electromechanics, electrohydrodynamics, microfluidics

Hoe, James C., Professor – ECE, CS; Co-Director – CALCM

Keywords

Computer architecture, high-level hardware description and synthesis

Hollis, Ralph L., Research Professor – RI; Courtesy Professor – ECE

Keywords

Haptics, microassembly, dynamically stable mobile robots

Hong, Jason, Courtesy Professor – ECE; Associate Professor – CS

Keywords

Power systems, optimization, control, energy networks, decomposition

Iannucci, Bob, Distinguished Service Professor – Carnegie Mellon Silicon Valley, ECE; Director – CyLab Mobility Research Center

Keywords

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

Ilic, Jovan, Associate Teaching Professor – ECE

Ilic, Marija, Professor Emeritus – ECE

Keywords

Large-scale systems modeling and simulation; power systems control and pricing algorithms; critical infrastructures/interdependencies

Ishihara, Abe, Courtesy Professor – ECE

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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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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 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

Physical and chemical sensors, transducers, MEMS, magnetism, materials, thin films, data storage and RF devices

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Integrated circuits, computer-aided design

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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

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

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: Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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Keywords: Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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Keywords: Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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Keywords: Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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Keywords: Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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Keywords: Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits
Keywords

Electronic circuits, systems design automation

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Keywords

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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

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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

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Keywords

Micro/nano-robotics, biologically inspired systems, nanotechnology, MEMS/NEMS

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Keywords

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Keywords

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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

Photonics, optical networks, biophotonics, sensors, quantum phenomena in optical materials.

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Keywords  
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Keywords

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Keywords

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

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