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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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Professor – CEE; Courtesy Professor – ECE 

Bhagavatula, Vijayakumar  U.A. and Helen Whitaker Professor – ECE; Affiliated Faculty – DSSC; Associate Dean of Faculty and Graduate Affairs – CIT  

Keywords 

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

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Professor – ECE 

Keywords 

Distributed fault-tolerant computing and computer networks 

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Bishop, Cathy  Instructor – ECE  

Blanton, Shawn  Professor – ECE  (412)-268-2987 

Keywords 

Test and diagnosis of heterogeneous, integrated systems 

Bollapragada, Vara  Post Doctoral Research Associate – ECE 

Boni, Dante  Equipment Technician – Nanofab 

Bosle, Kevin  Senior Buyer – ECE  (412)-268-9642 

Keywords 

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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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Cominos, Lenna Corporate Relations – ECE

Condeessa, Filipe Post Doctoral Research Associate – ECE

Conley, Kelley Research Administrator – ECE

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

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

Cranor, Lorrie F. Professor – ISR, EPP; Courtesy Professor – ECE

Keywords

Usable privacy and security

Datta, Anupam Associate Professor – CyLab, ECE

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

Decker, Dave Manager of Web Development Services – ECE

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

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

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

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.

Keywords

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

Keywords

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

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

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

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Magnetic materials, material science, electron microscopy, x-ray diffraction

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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
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

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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
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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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Keywords

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

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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

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Keywords

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

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Telecommunications policy and economics

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Keywords

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Keywords

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Keywords

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