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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

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

Multimedia coding and streaming, computer vision, pattern recognition, computer graphics, multimodal biometrics

Hyper-redundant mechanisms, coverage, car-painting, de-mining, mobile robots, motion planning, hybrid controls
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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Keywords

Usable privacy and security

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Keywords

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

E

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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
Director – MEMS; Affiliated
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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, digital signal processing transforms, advanced architectures

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Keywords

Security, privacy, formal methods, and programming languages.

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Keywords

Wireless systems, multimedia compression, signal processing/compression
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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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Jia, Limin  Assistant Research Professor – CyLab, INI, ECE  

Keywords  
Language-based security, programming languages, logic and program verification.  

Jordan, Angel  Emeritus University Professor – ECE, RI  

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

Kanade, Takeo  U.A. and Helen Whitaker Professor – CS, RI; Courtesy Professor – ECE  

Keywords  
Computer vision, autonomous systems, medical robotics  

Kar, Soummya  Assistant Research Professor – ECE  

Keywords  
Distributed Information Processing, Multi-Agent Decision Making, Adaptive Stochastic Systems  

Kareis, Tomissa  Research Administrator – ECE  

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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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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
Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.
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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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Mukherjee, Tamal Professor – ECE

Keywords

Analog/RF/MEMS/biofluidic microsystem design

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Keywords

Computer architecture, hardware/software interaction, operating systems, fault tolerance

N

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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

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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Péraire, Cécile Assistant Teaching Professor – ECE

Püschel, Markus Adjunct Professor – ECE

Keywords

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

Pagliarini, Samuel Post Doctoral Research Associate – ECE

Palko, Adam P. Finance and Research Administrator – ECE

Paramesh, Jeyanandh Associate Professor – ECE

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

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Keywords

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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Keywords

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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

Human/robot interaction, mobile robotics

S

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Santos, Augusto Post Doctoral Research Associate – ECE

Satyanarayanan, Mahadev Carnegie Professor – CS; Courtesy Professor – ECE

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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

Tomko, Jessica  Admissions Coordinator – ECE

Tonguz, Ozan  Professor – ECE

Keywords
Keywords

Optical networks, wireless networks and communications systems, and high-speed networking

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Keywords

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Keywords

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Keywords
Nanoelectronics, Heterogeneous Integration, RF and Analog Integrated Circuits, Biomedical Electronics, Carbon Nanotubes, Graphene
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Magnetic nanotechnology
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Keywords
Specification, verification, reliability, security, distributed systems, software engineering, programming languages
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Keywords
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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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