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Bain, Jim| Professor – ECE, MSE; Associate Director – DSSC

Keywords

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

Balram, Nikhil| Adjunct Professor – ECE

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Bauer, Lujo| Associate Professor – ISR, ECE

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

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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
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

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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

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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

Hardware and software verification, automatic theorem proving, symbolic computation

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Keywords

Usable privacy and security

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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; 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

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

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.  

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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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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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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

Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.

Marculescu, Diana David Edward Schramm Professor – ECE; Associate Department Head for Academic Affairs – ECE

Keywords

VLSI/computer architecture, energy aware computing, CAD for integrated systems

Mattingly, Chloe Administrative Coordinator – ECE, DSSC

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

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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

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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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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