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Keywords

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

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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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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

Usable privacy and security

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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
Computer architecture, memory systems, multiprocessor architecture, architectural support for gigascale integration, design evaluation tools

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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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**Fox, Toni** Sponsored Research Assistant – CyLab

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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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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

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

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

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Keywords
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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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distributed embedded systems, survivable system architecture, dependability

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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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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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Integrated circuits, computer-aided design

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Keywords

Digital circuit design, computer architecture, memory design, reconfigurable computing

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Computer-aided design and manufacturing of VLSICs

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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

Communications, statistical signal/image, video, and multimedia processing, wavelet transforms
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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

fault tolerance, distributed systems, embedded systems, mobile systems
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computational sensors, computer graphics, computer vision, image processing, optics
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Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory
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<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Keywords</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pasareanu, Corina</td>
<td>Senior Research Scientist – ECE-SV</td>
<td>Telecommunications, wireless networks, internet, spectrum management,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>communications for homeland security, electronic commerce, developing countries,</td>
</tr>
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<td></td>
<td></td>
<td>universal service, security</td>
</tr>
<tr>
<td>Patterson, Carolyn</td>
<td>Administrative Coordinator – ECE</td>
<td></td>
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<tr>
<td>Pavlo, Andy</td>
<td>Courtesy Professor – ECE</td>
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<tr>
<td>Peha, Jon</td>
<td>Professor – EPP; Courtesy Professor – ECE</td>
<td></td>
</tr>
<tr>
<td>Patterson, Carolyn</td>
<td>Administrative Coordinator – ECE</td>
<td></td>
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<tr>
<td>Pavlo, Andy</td>
<td>Courtesy Professor – ECE</td>
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<tr>
<td>Peha, Jon</td>
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<td>Peha, Jon</td>
<td>Professor – EPP; Courtesy Professor – ECE</td>
<td></td>
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<tr>
<td>Penderville, JT</td>
<td>Audio Visual &amp; Distance Communications Manager – ECE</td>
<td></td>
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<tr>
<td>Perrig, Adrian</td>
<td>Adjunct Professor – ECE; Professor – EPP, CS; Technical Director – CyLab</td>
<td></td>
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<tr>
<td>Phelps, Shelley</td>
<td>Finance and Business Associate – ECE</td>
<td></td>
</tr>
<tr>
<td>Piazza, Gianluca</td>
<td>Professor – ECE; Director – Nanofab</td>
<td></td>
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<tr>
<td>Pileggi, Larry</td>
<td>Tanoto Professor – ECE</td>
<td>MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS</td>
</tr>
<tr>
<td>Pileggi, Leah</td>
<td>Professional Writer – ECE; Professional Assistant – ECE</td>
<td>Design, implementation and modeling of electronic integrated systems</td>
</tr>
</tbody>
</table>

Keywords:
- Telecommunications, wireless networks, internet, spectrum management, communications for homeland security, electronic commerce, developing countries, universal service, security
- Information and systems security, focusing on network security (internet, mobile computing, and sensor networks) as well as on trusted computing.
- MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS
- 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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Embedded and real-time systems

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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

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

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

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

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

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