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Keywords

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Keywords

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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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<th>Name</th>
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<th>Department</th>
<th>Keywords</th>
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<tbody>
<tr>
<td><strong>Carley, Kathleen</strong></td>
<td>Professor – ISR; Courtesy</td>
<td>Professor – ECE</td>
<td>CAD and design of analog signal processing circuits and MEMS systems</td>
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<tr>
<td><strong>Carley, Rick</strong></td>
<td>ST Microelectronics</td>
<td>Professor – ECE; Affiliated Faculty – DSSC</td>
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<tr>
<td><strong>Chamanzar, Maysam</strong></td>
<td>Assistant Professor – ECE</td>
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<td>Optics, Neural Interfaces, Photonic Integrated Circuits, Plasmonics, Sensing</td>
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<td><strong>Chase, Steven</strong></td>
<td>Courtesy Professor – ECE</td>
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<tr>
<td><strong>Chen, Tsuhan</strong></td>
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<td>Multimedia coding and streaming, computer vision, pattern recognition, computer graphics, multimodal biometrics</td>
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<td><strong>Chen, Xiaoming</strong></td>
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<td><strong>Chomas, Louis</strong></td>
<td>Research Associate – DSSC; Cleanroom/MEMS Engineer – ECE</td>
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<td><strong>Chong, Jike</strong></td>
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<td><strong>Choset, Howie</strong></td>
<td>Professor – RI; Courtesy</td>
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<td>Hyper-redundant mechanisms, coverage, car-painting, de-mining, mobile robots, motion planning, hybrid controls</td>
</tr>
<tr>
<td><strong>Chraska, Jacqueline</strong></td>
<td>Administrative Coordinator – ECE</td>
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<td><strong>Christin, Nicolas</strong></td>
<td>Assistant Research Professor – CyLab, ECE</td>
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Keywords

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Keywords

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Keywords

Usable privacy and security

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Keywords

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Keywords

Databases, data mining, multimedia indexing, performance evaluation

Falsafi, Babak Adjunct Professor – ECE, CS

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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Keywords

Automatic performance tuning, digital signal processing transforms, advanced architectures
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Keywords

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Keywords

cloud computing, storage/file systems, operating systems, distributed systems

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Systems Nanotechnology, Programmable Matter, Reconfigurable Computing, Parallel Computing, Compilers, Architecture

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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
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Keywords

Computer architecture, high-level hardware description and synthesis

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Haptics, microassembly, dynamically stable mobile robots

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Keywords

power systems, optimization, control, energy networks, decomposition

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

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

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

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Keywords
Computer vision, autonomous systems, medical robotics

Kar, Soummya Assistant Research Professor – ECE

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

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Kelly, Shawn K. Senior Systems Scientist – ICES; Courtesy Professor – ECE

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Keywords
Computer vision, autonomous systems, medical robotics

Kar, Soummya Assistant Research Professor – ECE

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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<th>Name</th>
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</table>
Keywords

Integrated circuits, computer-aided design

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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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Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory

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Keywords

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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

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
Rutenbar, Rob A., Adjunct Professor – ECE  rutenbar@ece.cmu.edu

Keywords

VLSI CAD, algorithms, analog and digital circuits, automatic speech recognition

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Keywords

Human/robot interaction, mobile robotics

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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

Sitti, Metin Professor – MechE, RI; Courtesy Professor – ECE; Affiliated Faculty – DSSC (412)-268-3632 sitti@cmu.edu
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
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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Optical networks, wireless networks and communications systems, and high-speed networking

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

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Keywords
Power Systems Protection, Communication in Power Networks, Distributed Generation, Microgrids and Smartgrids

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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

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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Computer networks, internet, resource management, multimedia

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Micromagnetics, magnetoelectronic devices, magnetic recording

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