<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Keywords</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agarwal, Yuvraj</td>
<td>Courtesy Professor – ECE; Assistant Professor – CS</td>
<td>Thin-film magnetic device design, fabrication, and testing; magnetic disk and tape recording</td>
</tr>
<tr>
<td>Alacce, John</td>
<td>Systems Administrator – ECE</td>
<td></td>
</tr>
<tr>
<td>Ambrass, Charlotte</td>
<td>Associate Director of Finance and Sponsored Research – ECE</td>
<td></td>
</tr>
<tr>
<td>Andersen, David</td>
<td>Adjunct Professor – ECE</td>
<td></td>
</tr>
<tr>
<td>Anna, Shelley L.</td>
<td>Associate Professor – MechE; Affiliated Faculty – DSSC</td>
<td></td>
</tr>
<tr>
<td>Anschuetz, Lou</td>
<td>IT Manager – ECE</td>
<td></td>
</tr>
<tr>
<td>Antaki, James</td>
<td>Professor – BME; Courtesy Professor – ECE</td>
<td></td>
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<tr>
<td>Atwell, Niccole</td>
<td>Senior Associate Director of Engagement and Annual Giving – ECE</td>
<td></td>
</tr>
<tr>
<td>Bain, Jim</td>
<td>Professor – ECE, MSE; Associate Director – DSSC</td>
<td></td>
</tr>
<tr>
<td>Balram, Nikhil</td>
<td>Adjunct Professor – ECE</td>
<td></td>
</tr>
<tr>
<td>Bandola, Judy</td>
<td>Administrative Coordinator – ECE</td>
<td></td>
</tr>
<tr>
<td>Bauer, Lujo</td>
<td>Associate Professor – ECE, ISR</td>
<td></td>
</tr>
<tr>
<td>Belotti, Dave</td>
<td>Shop Machinist – ECE</td>
<td></td>
</tr>
<tr>
<td>Benicky, Sheryl</td>
<td>Research Administrator – ECE</td>
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</table>

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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

Computer security, network security, online crime, security economics, usable security, algorithmic applications of game theory

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

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Keywords

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Keywords

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

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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

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

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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**
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

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

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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

Kova#evi#, Jelena David Edward Schramm University Professor and Head – ECE; University Professor – BME
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Keywords
Signal processing, biomedical, wavelets, frames, multi-resolution, 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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Integrated circuits, computer-aided design

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

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

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

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Scientific computing, parallel computing, computational database systems, and virtualization

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Keywords
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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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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
Human/robot interaction, mobile robotics

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Keywords
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Keywords
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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

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Keywords

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Keywords

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Statistically based CAD/CAM of VLSI circuits

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Keywords

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Autonomous agents, distributed control, power systems, cascading failures

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Neural signal processing, machine learning approaches in neuroscience, neural prosthetic systems  
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Computer networks, internet, resource management, multimedia  
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Keywords  
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