### Photo-board View | List View

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Position</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Agarwal, Yuvraj</strong></td>
<td>Courtesy Professor – ECE; Assistant Professor – CS</td>
<td><a href="mailto:yuvraja@andrew.cmu.edu">yuvraja@andrew.cmu.edu</a></td>
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<tr>
<td><strong>Amvrosiadis, George</strong></td>
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<tr>
<td><strong>Andersen, David</strong></td>
<td>Adjunct Professor – ECE</td>
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</tr>
<tr>
<td><strong>Anna, Shelley L.</strong></td>
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</tr>
<tr>
<td><strong>Bain, Jim</strong></td>
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</tr>
<tr>
<td><strong>Bauer, Lujo</strong></td>
<td>Associate Professor – ISR, ECE</td>
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</tr>
</tbody>
</table>

**Keywords**

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

- **Balram, Nikhil**  Adjunct Professor – ECE
- **Bauer, Lujo**  Associate Professor – ISR, ECE

**Keywords**

Computer security, access control, program monitoring, security automata, policy specification

- **Beckmann, Nathan**  Courtesy Professor – ECE; Assistant Professor – CSD
- **Berger, Luc**  Professor Emeritus – Physics; Affiliated Faculty – DSSC
- **Berges, Mario**  Assistant Professor – CEE; Courtesy Professor – ECE
- **Bhagavatula, Vijayakumar**  U.A. and Helen Whitaker
  Professor – ECE; Affiliated Faculty – DSSC; Associate Dean of Faculty and Graduate Affairs – CIT

**Keywords**

(412)-268-3602

- **Bain, Jim**  Professor – ECE, MSE; Associate Director – DSSC
- **Bauer, Lujo**  Associate Professor – ISR, ECE

**Keywords**

Computer security, access control, program monitoring, security automata, policy specification

- **Beckmann, Nathan**  Courtesy Professor – ECE; Assistant Professor – CSD
- **Berger, Luc**  Professor Emeritus – Physics; Affiliated Faculty – DSSC
- **Berges, Mario**  Assistant Professor – CEE; Courtesy Professor – ECE
- **Bhagavatula, Vijayakumar**  U.A. and Helen Whitaker
  Professor – ECE; Affiliated Faculty – DSSC; Associate Dean of Faculty and Graduate Affairs – CIT

**Keywords**
Keywords
Coding and signal processing for data storage, biometrics, pattern recognition

Bianchini, Ronald Adjunct Professor – ECE (412)-968-9110 rpb@ece.cmu.edu

Keywords
Distributed fault-tolerant computing and computer networks

Bishop, Cathy Instructor – ECE mcbishop@andrew.cmu.edu
Blanton, Shawn Professor – ECE (412)-268-2987 rblanton@andrew.cmu.edu

Keywords
Test and diagnosis of heterogeneous, integrated systems

Brown, Timothy X Distinguished Service +250 78 767 40 62 Professor – EPP, ECE timxb@andrew.cmu.edu
Brumley, David J. Associate Professor – CSD; Director – CyLab; Professor – ECE dbrumley@ece.cmu.edu
Bryant, Randal Professor – CS; Courtesy Professor – ECE (412)-268-8821 bryant@cs.cmu.edu

Keywords
Formal hardware and software verification

Carley, Kathleen Professor – ISR; Courtesy Professor – ECE (412)-268-6016 kathleen.carley@cs.cmu.edu
Carley, Rick ST Microelectronics Professor – ECE; Affiliated Faculty – DSSC (412)-268-3597 lrc@ece.cmu.edu

Keywords
CAD and design of analog signal processing circuits and MEMS systems

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Chamanzar, Maysam Assistant Professor – ECE mchamanz@andrew.cmu.edu
Keywords

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

Chase, Steven  Courtesy  schase@andrew.cmu.edu
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Professor – ECE

Keywords

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

Chi, Yuejie  Associate Professor – ECE  yuejiec@andrew.cmu.edu

Choset, Howie  Professor – RI; Courtesy  choset@cs.cmu.edu
Professor – ECE

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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Keywords

Usable privacy and security

Datta, Anupam  Associate Professor – CyLab, ECE  danupam@andrew.cmu.edu

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Professor – MSE; Courtesy
Professor – ECE

**De La Torre Frade, Fernando**
Professor – ECE; Research Scientist – RI

**Dey, Anind K.**
Associate Professor – HCII; Courtesy Professor – ECE

**Dolan, John**
Courtesy Professor – ECE; Senior Systems Scientist – RI

**Eckhardt, Dave**
Courtesy Professor – ECE; Assistant Teaching Professor – CS

**Erdogmus, Hakan**
Associate Teaching Professor – ECE

**Faloutsos, Christos**
Professor – CS; Courtesy Professor – ECE

**Fanti, Giulia**
Assistant Professor – ECE

**Fedder, Gary**
Howard M. Wilkoff Professor – ECE, RI; Co-Director – MEMS; Affiliated Faculty – DSSC

---

**Keywords**

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

---

**Eckhardt, Dave**
Courtesy Professor – ECE; Assistant Teaching Professor – CS

**Erdogmus, Hakan**
Associate Teaching Professor – ECE

**Faloutsos, Christos**
Professor – CS; Courtesy Professor – ECE

**Fanti, Giulia**
Assistant Professor – ECE

**Fedder, Gary**
Howard M. Wilkoff Professor – ECE, RI; Co-Director – MEMS; Affiliated Faculty – DSSC

---

**Keywords**

Databases, data mining, multimedia indexing, performance evaluation

---

**Keywords**

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

Microelectromechanical systems (MEMS), RF MEMS, inertial/bio/chemical sensors, MEMS CAD, micro-robotics

Feenstra, Randy  Professor – Physics; Courtesy Professor – ECE
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Keywords

Molecular beam epitaxy, scanning tunneling microscopy

Franchetti, Franz  Professor – ECE; Faculty Director of ITS – ECE
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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

Fredrikson, Matt  Assistant Professor – ISR, CS; Courtesy Professor – ECE
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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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Gibbons, Phil  Professor – ECE  pgibbons@andrew.cmu.edu

Gibson, Garth  Professor – CS; Courtesy Professor – ECE; Affiliated Faculty – DSSC

Keywords
Computer architecture, operating systems, file systems, disk arrays

Gkioulekas, Ioannis  Courtesy Professor – ECE; Assistant Professor – RI

Gligor, Virgil  Professor – ECE; Co-Director – CyLab  (412)-268-9833

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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

Griss, Martin L  Adjunct Professor – ECE  (650)-335-2805

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Keywords

Scheduling of computer systems, workload characterization, heavy-tailed distributions

He, Bin Courtesy bhe1@andrew.cmu.edu
Professor – ECE; Professor – BME; Department Head – BME

Higgs III, Fred Professor – MechE; Courtesy higgs@andrew.cmu.edu
Professor – ECE

Keywords

Tribology, nanomanufacturing, multiscale particle flows

Hills, Alex Distinguished Service Professor – EPP; Courtesy ahills@cmu.edu
Professor – ECE

Keywords

Research in wireless technology and telecommunications policy

Hoburg, James Emeritus Professor – ECE hoburg@ece.cmu.edu
Faculty – ECE

Keywords

Electromagnetics, electromechanics, electrohydrodynamics, microfluidics

Hoe, James C. Professor – ECE, CS; Co-Director – CALCM jhoe@cmu.edu

Keywords

Computer architecture, high-level hardware description and synthesis

Hollis, Ralph L. Research Professor – RI; Courtesy rhollis@cs.cmu.edu
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Keywords

Haptics, microassembly, dynamically stable mobile robots

Hong, Jason Courtesy jasonh@cs.cmu.edu
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**Keywords**

power systems, optimization, control, energy networks, decomposition

**Iannucci, Bob**  Distinguished Service Professor – Carnegie Mellon Silicon Valley, ECE; Director – CyLab Mobility Research Center

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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.

**Joe-Wong, Carlee**  Assistant Professor – ECE  650-335-2832  cjoewong@andrew.cmu.edu
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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Kainerstorfer, Jana Courtesy Professor – ECE jkainers@andrew.cmu.edu

Kanade, Takeo U.A. and Helen Whitaker Professor – CS, RI; Courtesy Professor – ECE tk@cs.cmu.edu

Keywords
Computer vision, autonomous systems, medical robotics

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

Kavcic, Aleksandar Adjunct Faculty – ECE akavcic@andrew.cmu.edu

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Khosla, Pradeep K. Adjunct Professor – ECE; Chancellor – University of California, San Diego pkk@ece.cmu.edu
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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Koopman, Philip
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Keywords
distributed embedded systems, survivable system architecture, dependability

Kova#evi#, Jelena Hamerschlag
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(412) 268-3299
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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

Kumar, Swarun S. Assistant Professor – ECE 412-268-1892 swarun@cmu.edu

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Keywords
Physical and chemical sensors, transducers, MEMS, magnetism, materials, thin films, data storage and RF devices

Lane, Ian R. Associate Research Professor – ECE ianlane@cs.cmu.edu

Laughlin, David ALCOA Professor – MSE; Courtesy Professor – ECE; Affiliated Faculty – DSSC (412)-268-2706 dl0p@andrew.cmu.edu

Keywords
Magnetic materials, material science, electron microscopy, x-ray diffraction

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Keywords
Integrated circuits, computer-aided design

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Mai, Ken Principal Systems Scientist – ECE (412)-268-8335 kenmai@ece.cmu.edu
Keywords

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

Majetich, Sara A. Professor – Physics; Courtesy Professor – ECE; Affiliated Faculty – DSSC

Maly, Wojciech Professor Emeritus – ECE

Majetich , Sara A. Professor – Physics;Courtesy Professor – ECE; Affiliated Faculty – DSSC

Maly , Wojciech Professor

Keywords

Computer-aided design and manufacturing of VLSICs

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

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

Marculescu , Radu Professor – ECE

Marculescu , Radu Professor – ECE

Keywords

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

Maxion, Roy Research Professor – CS; Courtesy Professor – ECE

Maxion, Roy Research Professor – CS; Courtesy Professor – ECE

Keywords

Computer dependability and security; information warfare; intrusion detection; system diagnosis

McHenry, Michael E. Professor – MSE; Affiliated Faculty – DSSC

Mengshoel, Ole Principal Systems Scientist – ECE

Miskov-Zivanov, Natasa Adjunct Faculty – ECE

McHenry , Michael E. Professor – MSE; Affiliated Faculty – DSSC

Mengshoel, Ole Principal Systems Scientist – ECE

Miskov-Zivanov , Natasa Adjunct Faculty – ECE

Miskov-Zivanov , Natasa Adjunct Faculty – ECE

Keywords
Mohimani, Hosein  Courtesy  
Professor – ECE; Assistant Professor – CBD

Morgan, Granger  Professor – ECE; Lord Professor – EPP

Keywords

Technology and policy including climate change and electric power

Morris, James  Professor – CS; Courtesy Professor – ECE

Moura, José  Associate Department Head - Research & Strategic Initiatives – ECE; Philip L. and Marsha Dowd University Professor – ECE, BME; Affiliated Faculty – DSSC

Keywords

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

Mowry, Todd  Professor – CS; Courtesy Professor – ECE; Co-Director – CALCM

Keywords

Computer architecture, compilers, operating systems, parallel processing

Mukherjee, Tamal  Professor – ECE

Keywords

Analog/RF/MEMS/biofluidic microsystem design

Mutlu, Onur  Adjunct Professor – ECE

Keywords

Computer architecture, hardware/software interaction, operating systems, fault tolerance
Nace, Bill  Associate Teaching Professor – ECE  (412)-268-7027  wnace@cmu.edu

Keywords

Digital Design, Embedded Systems, Networks

Narasimhan, Priya  Professor – ECE  (412)-268-8801  priya@cs.cmu.edu

Keywords

fault tolerance, distributed systems, embedded systems, mobile systems

Narasimhan, Srinivasa  Associate Professor – RI; Courtesy Professor – ECE  412-268-1199  srinivas@andrew.cmu.edu

Keywords

computational sensors, computer graphics, computer vision, image processing, optics

Negi, Rohit  Professor – ECE; Affiliated Faculty – DSSC  (412)-268-6264  negi@ece.cmu.edu

Keywords

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

Noh, Hae Young  Assistant Professor – CEE; Courtesy Professor – ECE  noh@cmu.edu

O'Hallaron, David  Professor – CS, ECE; Director – Intel Research Pittsburgh  (412)-268-8199  droh@cs.cmu.edu

Keywords

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

Ozdoganlar, O. Burak  Affiliated Faculty – DSSC; Associate Professor – MechE  (412)-268-9890  ozdoganlar@cmu.edu
Keywords

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

Keywords

Analog, Mixed-signal and RF/millimeter-wave Integrated Circuit Design, Digitally-assisted analog/RF IC design

Keywords

Telecommunications, wireless networks, internet, spectrum management, communications for homeland security, electronic commerce, developing countries, universal service, security

Keywords

Information and systems security, focusing on network security (internet, mobile computing, and sensor networks) as well as on trusted computing.
Keywords
MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS

Pileggi, Larry Tanoto Professor – ECE (412)-268-6774
Keywords
Design, implementation and modeling of electronic integrated systems

Platzer, Andre Assistant Professor – CSD; Associate Professor – ECE (412)-268-1558
Keywords
Verification of embedded control systems, hybrid dynamical systems, cyber-physical systems, distributed hybrid systems, logic and formal methods

Rajkumar, Raj Professor – ECE, CSD; Co-Director – GM-CM CRL; Director – Real-Time and Multimedia Systems Laboratory (412)-268-8707
Keywords
Embedded and real-time systems

Ramakrishnan, Bhiksha Raj Courtesy Professor – ECE; Associate Professor – LTI
Keywords
Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

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Keywords

Electronic circuits, systems design automation
Rowe, Anthony Associate ECE (412)-268-4856 agr@ece.cmu.edu

Keywords

Embedded systems, distributed systems, sensor networks
Rutenbar, Rob A. Adjunct ECE rutenbar@ece.cmu.edu

Keywords

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

S

Salvador, Paul A. Associate MSE; Affiliated Faculty – DSSC (412)-268-2702 paul7@andrew.cmu.edu

Keywords

Biometric identification, Cyber-Physical Security, Authentication, Pattern recognition

Schlesinger, T.E. (Ed) Adjunct ECE ed@ece.cmu.edu

Keywords

Semiconductor devices, information storage, optoelectronic systems

Schneider, Jeff Research RI; Courtesy Professor – ECE jeff4@andrew.cmu.edu

Keywords

Sekar, Vyas Assistant Professor – ECE vsekar@ece.cmu.edu
**Keywords**

Networking, Security, Systems, Software-defined networking, Internet-of-Things security

**Seshan, Srinivasan**  
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**Keywords**

Network protocols, applications, distributed systems, mobile computing, wireless networks

**Shah, Nihar**  
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**Keywords**

Modern superscalar processor design, instruction-level parallelism and code scheduling

**Siewiorek, Daniel**  
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**Keywords**

Computer architecture, reliability, context aware mobile computing

**Singh, Rita**  
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**Keywords**

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

**Sirbu, Marvin**  
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**Keywords**

Telecommunications policy and economics
Sitti, Metin Professor – MechE, RI; Courtesy Professor – ECE; Affiliated Faculty – DSSC

Keywords

Micro/nano-robotics, biologically inspired systems, nanotechnology, MEMS/NEMS

Skowronski, Marek Courtesy Professor – ECE; Professor – MSE; Affiliated Faculty – DSSC

Smailagic, Asim Courtesy Professor – ECE; Research Professor – ICES; Director – LINCS

Keywords

Mobile computing, computer architecture, system design methods, wearable computers

Smola, Alex Professor – MLD; Courtesy Professor – ECE

Sokalski, Vincent Assistant Research Professor – MSE; Affiliated Faculty – DSSC

Song, Dawn Adjunct Professor – ECE

Sreenath, Koushil Courtesy Professor – ECE; Assistant Professor – RI

Stancil, Daniel Adjunct Professor – ECE

Keywords

Wireless communications, nanophotonics, spin wave devices

Steenkiste, Peter Professor – ECE, CS

Keywords

Computer networks, distributed systems, pervasive computing

Stern, Richard Professor – ECE, LTI, CSD, BME; Lecturer – Music

Steenkiste, Peter Professor – ECE, CS

Keywords

Computer networks, distributed systems, pervasive computing

Stern, Richard Professor – ECE, LTI, CSD, BME; Lecturer – Music

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Keywords

Automatic speech recognition, auditory perception, signal processing
Strojwas, Andrzej Keithley
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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
Tague, Patrick
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Keywords

Network security; Wireless networking
Talukdar, Sarosh
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Keywords

Autonomous agents, distributed control, power systems, cascading failures
Tang, Xiaoying
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Keywords

Computer-aided design of single chip heterogeneous multiprocessor systems
Tonguz, Ozan
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Keywords

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

Towe, Elias  Professor – ECE; Albert and Ethel Grobstein Memorial Professor – MSE; Director – CNXT  (412)-268-8091  towe@cmu.edu

Keywords

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

V

Veloso, Manuela  Professor – CS; Courtesy Professor – ECE  mmv@cs.cmu.edu

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Vinayak, Rashmi  Assistant Professor – CSD; Courtesy Professor – ECE  rvinayak@cs.cmu.edu

W

Wang, Kai  Adjunct Professor – ECE  wangkai@andrew.cmu.edu

Wasserman, Anthony  Adjunct Professor – ECE  (650)-335-2807  tonyw@cmu.edu

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Weldon, Jeffrey  Adjunct Professor – ECE  jaweldon@hawaii.edu

Keywords

Nanoelectronics, Heterogeneous Integration, RF and Analog Integrated Circuits, Biomedical Electronics, Carbon Nanotubes, Graphene

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Keywords

Magnetic nanotechnology
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**Keywords**

Wireless communications, network science, security, social networks, cyber-physical networks

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**Keys**

Neural signal processing, machine learning approaches in neuroscience, neural prosthetic systems

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**Keywords**

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

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Computer networks, internet, resource management, multimedia

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Sensor Networks, Embedded Systems

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Keywords

Micromagnetics, magnetoelectronic devices, magnetic recording