FACULTY RESEARCH PROFILES
2015-2016
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
AT
UNIVERSITY OF CENTRAL FLORIDA
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INTRODUCTION TO ECE RESEARCH

Welcome to the Department of Electrical and Computer Engineering (ECE) at the University of Central Florida. We have talented students, dedicated faculty, state-of-the-art facilities, and quality educational programs. Through delivering research-based education to our students and facilitating technology transfers, ECE faculty continue their research endeavors that generate new knowledge and support technology advances as well as economic growth.

ECE is the home of the FEEDER Center, one of national-network centers funded by US Department of Energy under the GEARED program. Also affiliated with ECE are the MIST Center, an NSF I/UCRC, and the Electric Vehicle Transportation Center, a Tier-1 University Transportation Center funded by US Department of Transportation. ECE research is categorized into the following four focus groups, each of which consists of several areas:

- **Computer Systems and VLSI**
  - Data-intensive High Performance Computing, Massive Storage and File System, I/O Architecture
  - Computer Architecture and Evolvable Hardware
  - Secure, Trusted, and Reliable Processor and ASIC Design; Cyber Security and Cryptography

- **Cyber-Physical Systems (Communication, Controls, Signal Processing, and Energy Systems)**
  - Networked Systems, Cooperative Control, Optimization and Games
  - Autonomous Robotic Vehicles, Medical and Assistive Robotics
  - Smart Grids, Distributed Generation and Optimization, Protection and Control
  - Biomedical Devices and Control
  - Digital Signal Processing, Detection and Estimation
  - Communication Theory, Cognitive Radios and Networks, Wireless Communication and Sensor Networks
  - Machine Learning, Artificial Neural Networks, Distributed Decision

- **Micro- and Nano-Systems**
  - Microwave Sensors, Antennas, Phased Arrays and Integrated RF
  - Micro- and Nano- Electronics, MEMS devices, Device Modeling, Acoustic Wave Devices
  - Power electronics, Power Semiconductor devices and ICs
  - Optoelectronic Materials, Thin Films Micromachining

- **Electromagnetics**
  - Microwave Sensors, Antennas, Phased Arrays and Integrated RF
  - Remote Sensing, Satellite Communications

In this booklet, research profiles of individual ECE faculty are included. Separately, annual reports detailing research accomplishments are available upon request.

Thank you for your interests in and support of ECE students, faculty and their research. You are cordially invited to visit us at your convenience. For more information, please visit our web site at www.ece.ucf.edu or contact the ECE office at (407) 823-5942.

Zhihua Qu
Professor and Chair
## Contact Information

### Department of Electrical & Computer Engineering

Zhihua Qu, Professor & Chair, 407-823-5942, qu@ucf.edu

Samuel M. Richie, Associate Professor, Associate Chair and Undergraduate Coordinator, 407-823-5765, richie@ucf.edu

Kalpathy Sundaram, Professor & Graduate Coordinator, 407-823-5326, sundaram@eecs.ucf.edu

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### Tenure/Tenure-Track Faculty and Research Faculty

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ELECTRICAL & COMPUTER ENGINEERING

FACULTY RESEARCH PROFILES
Reza Abdolvand
Associate Professor
Ph.D., Electrical Engineering
Georgia Institute of Technology, 2008

Contact:
Reza.Abdolvand@ucf.edu
407-823-1760

Research
http://www.eecs.ucf.edu/~reza/

• Micro- and Nano-Electromechanical Systems (MEMS/NEMS)
• Micro-resonators for timing and data processing
• Resonant Sensors
• Ultrasonic Techniques for Bio-fluid Analysis at Small Scale
• Infrared Sensing
• Micro-fabrication

Ongoing Research Projects
• Low-Loss Piezoelectric-on-Diamond Filter Arrays for Multi-Band Telecommunication (NSF)
• Nano-Engineered Thermoelectric Infrared Sensor Arrays (Amethyst Research Inc. & NSF)
• Ultra-stable MEMS Oscillators (Internally Funded)
• Ultrasonic Micro-Sensors for Bio-Fluid Analysis (Internally Funded)

Professional Activities
• Frequent NSF panel reviewer

Honors & Awards
• Member of National Academy of Inventors since 2013
• Granted 12 US patents
• NASA patent application award, 2009
• Distinguished reviewer award, Journal of Sensors and Actuators, 2009

George Atia
Assistant Professor
Ph.D., Electrical and Computer Engineering
Boston University, 2009

Contact:
George.Atia@ucf.edu
407-823-3467

Research
http://www.eecs.ucf.edu/~atia/

• Statistical signal processing
• Machine learning and big data analytics
• Fundamental limits of sparse signal processing
• Controlled sensing for inference
• Neurological modeling and brain computer interfacing
• Cooperative communications and dynamic spectrum sharing

Ongoing Research Projects
• CIF: Advanced Ion Channel Models for Neurological Signal Processing -- Theory and Application to Brain-Computer Interfacing (PI), NSF
• Exploiting Multidimensional Classical Optical Entanglement for Enhanced Spatial Scene Recognition (CoPI), Office of Naval Research (ONR)
• CIF: A Unifying Approach for Identification of Sparse Interactions in Large Datasets (PI), NSF CCF/CIF
• I/UCRC Multi-functional Integrated System Technology (MIST) (CoPI)

Professional Activities
• Member, IEEE
• Organizer of the Special Session on Controlled Sensing for Inference at the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Kyoto Japan, March 2012.
• Member of the Technical Program Committee for the networks track of the 9th ACS/IEEE International Conference on Computer Systems and Applications.
• Member of the Technical Program Committee for the 22nd Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications.

Honors & Awards
• College of Engineering Dean's award (2006)
• Outstanding Graduate Teaching Fellow of the year award (2003-2004)
Issa Batarseh  
Professor  
Ph.D., Electrical Engineering  
University of Illinois at Chicago, 1990  

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issa.batarseh@ucf.edu  
407-823-0185  

Research  
http://fpec.ucf.edu  

- Power Electronics  
- Energy Conversion  
- Grid-tied Inverters  
- Smart Solar Energy  
- Photovoltaics/Systems (PV)  

Ongoing Research Projects  
- Three-phase Solar energy Microinverter (DoE)  
- Development of Modular Interactive Learning and Assessing Tools for Electrical Circuit Core Courses for Engineering Students  
- Florida Energy Systems Consortium (State of Florida)  
- US-Jordan Joint Research Project (NSF)  

Professional Activities  
- Served as panelist, and reviewer for NSF, DoE, NASA and several IEEE Transaction and other international journals  
- Served as General Chair for IEEE-PESC’07 and SOUTHEASTCON’98 conferences  
- IEEE Orlando Section Chair  
- Technical program committee chair of IEEE APEC, PESC, IECON, IAS and ISCAS  
- Registered Professional Engineer, Florida  

Honors & Awards  
- Research Incentive Award, 2011  
- AAAS Fellow, 2009  
- IEEE Fellow, 2005  
- IEEE Power Electronics Society, IEEE Transactions on Power Electronics Prize Paper Award  
- Davis Productivity Award for Best Invention, given by the State of Florida, 2004  
- IEE Fellow, 2003  

Aman Behal  
Associate Professor  
Ph.D., Electrical Engineering  
Clemson University, 2001  

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Aman.Behal@ucf.edu  
407-882-2820  

Research  
http://www.eecs.ucf.edu/~abehal/  

- Assistive Robotics  
- Wheelchair Mounted Assistive Robotic Arms  
- Autonomous and Semi-Autonomous Robots  
- Human Robot and Human Computer Interaction  
- Physical Human Robot Interaction  
- Robust MIMO Control  
- Nonlinear Control  
- Aeroservoelasticity  

Ongoing Research Projects  
- CHS: Small: Empowerment of Disabled Individuals via an Adaptive Framework for Indirect Human-Robot Interaction (National Science Foundation) - PI  
- CHS: Medium: Collaborative Research: Social Learning in Mixed Human-Robot Groups for People with Disabilities (National Science Foundation) - PI  
- Development of an Intelligent Assistive Robotic System for Individuals with Multiple Sclerosis (National Institute of Disability and Rehabilitation Research) - PI  

Professional Activities  
- Associate Editor, IEEE Transactions on Control Systems Technology  
- Associate Editor, IEEE Transactions on Cybernetics  
- Associate Editor, Conference Editorial Board, IEEE Control Systems Society  
- Associate Editor, Journal of Aerospace Engineering  
- Panel Reviewer – Division of Information and Intelligent Systems, National Science Foundation  
- Ad hoc Reviewer – NIH, NASA, NMSS  

Honors & Awards  
- Class of 2015 Millionaires at UCF  
- Senior Member – IEEE
Ronald F. DeMara  
Professor  
Ph.D., Computer Engineering  
University of Southern California, 1992  
  
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407-823-5916  
  
Research  
http://cal.ucf.edu/demara  
  
- Computer Architecture  
- Adaptive and Evolvable Hardware  
- Runtime Competitive Fault Handling for Reconfigurable Logic Devices  
- Scalable FPGA Architecture for DCT Using Dynamic Partial Reconfiguration  
- Aging and PVT Resilient Digital Design  
- Intrinsic Evolvable Hardware and Intelligent systems  
  
Ongoing Research Projects  
- Collaborative Research: Towards Lifelike Computer Interfaces that Learn (NSF)  
- IRES: U.S.-France Research and Education on Contextual Reasoning and its Application to Conversational Agents (NSF)  
  
Professional Activities  
- Special Issue Associate Editor – ACM Transactions on Embedded Computing Systems, special issue on “Configuring Algorithms, Processes and Architectures,” 2009  
  
Honors & Awards  
- Scholarship of Teaching & Learning Award (2008)  
- Research Incentive Award (2008)  
  
Deliang Fan  
Assistant Professor  
Ph.D., Electrical and Computer Engineering  
Purdue University, 2015  
  
Contact:  
Dfan@ucf.edu  
407-823-4476  
  
Research  
http://www.eecs.ucf.edu/~dfan/  
  
- Nanoscale Emerging Device Modeling and Simulation  
- Brain-inspired (Neuromorphic) Computing  
- Low Power Digital and Mixed Signal Circuit Design  
  
Professional Activities  
Technical Referee for:  
- IEEE Transactions on Circuits and Systems I  
- International Symposium on Low Power Electronics and Design (ISLPED)  
- IEEE Journal on Emerging and Selected Topics in Circuits and Systems  
- International Midwest Symposium on Circuits and Systems (MWSCAS)  
- AEU-International Journal of Electronics and Communications
Michael Georgiopoulos  
Professor, Dean of CECS  
Ph.D., Electrical Engineering  
University of Connecticut, 1986  

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407-823-5338  

Research  
http://www.eecs.ucf.edu/georgiopoulos/  
- Machine Learning  
- Neural Networks  
- Pattern Recognition  

Ongoing Research Projects  
- Central Florida - STEM Training Consortium (US Department of Labor)  
- Collaborative Research: RET in Engineering and Computer Science Site: Research Experiences for Teachers focused on Applications of ImagEs and SiGnals In High Schools (NSF)  
- I3: The UCF Community Embraces the Knowledge-Based Economy (NSF)  
- STEP Workshop: WORKStep (NSF)  
- UCF COMPASS: Convincing Outstanding-Math-Potential Admits to Succeed in STEM (NSF)  
- CAMP-YES: Career Advancement Mentoring Program for Young Entrepreneur and Scholars (NSF)  

Honors & Awards  
- UCF Undergraduate Student Mentor of the Year Award (2009-2010)  
- UCF (RIS) Research Incentive Award (2005)  
- Scholarship of Teaching and Learning (SoTL) Award (2009-2010)  
- UCF Pegasus Award (2010)  
- Inducted in the UConn Academy of Engineering (2014)  

Xun Gong  
Associate Professor  
Ph.D., Electrical Engineering  
University of Michigan, 2005  

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Research  
http://people.cecs.ucf.edu/xgong  
- Microwave Filters and Passive Components  
- Wireless passive sensors for harsh environment applications  
- Antennas, phased arrays, and reflectarrays  
- Flexible electronics  
- Micromachining  
- Advanced packaging  
- Ceramic materials, polymer materials, and ferroelectric materials & Material characterization  

Ongoing Research Projects  
- Customizable Antenna Array Using Pixelated and Reconfigurable Slot-Ring Antennas (DARPA)  
- BST-Inspired Flexible and Beamsteerable Reflectarray Antennas (NSF)  
- CAREER Next-Generation Ultra-Low-Cost Phased Arrays (NSF)  
- 1-110 GHz, Two Aperture Electronically Scanned Array for Electronic Attack (Harris Corporation GCSD Division)  

Professional Activities  
- General Chair: 2012 and 2009 WAMICON  
- ExCom Member: IMS, WAMICON, SiRF  
- TPC Chair: AP-S/URSI Int. Symp., RWS, WAMICON, SiRF  
- TPC Member: AP-S/URSI Int. Symp., IMS, RWS, WAMICON, SiRF, WiSNET, ICWITS, ISAP  
- Editor: IEEE MWCL, IET MAP Special Issue, IEEE Microwave Magazine Special Issue  
- IEEE AP/MTT Orlando Chapter Chair, 2007-2010  
- IEEE Orlando Section Awards Chair (2012-2013), Chair (2011), Vice Chair (2009-2010), and Secretary (2008)  

Honors & Awards  
- UCF CECS Distinguished Researcher Award (2013)  
- UCF CECS CAE Link Faculty Fellow (2010-2012)  
- UCF Research Incentive Award (2011)  
- UCF Teaching Incentive Program Award: ( 2010)  
- NSF Faculty Early Career Award (2009)  
- IEEE Florida Council Outstanding Engineer Award (2009)  
- IEEE Orlando Section Outstanding Engineer Award (2009)  
- T. Li and K. Karnati, Student Paper Competition Honorable Mention Awards in 2013 AP-S/URSI Int. Symp.  
- J. Luther, Student Paper Competition 2nd Place Award in 2012 RWS  
- J. Luther, Student Paper Competition Finalist in 2012 WAMICON  
- J. Luther, Student Paper Competition Honorable Mention Award in 2011 AP-S/URSI Int. Symp.  
- J. Luther, Best Student Research Presentation in 2011WAMICON  
- Y. Shen, Student Paper Competition Finalist in 2012 IMS  
- Y. Shen, Best Student Research Presentation in 2012 WAMICON
Michael Haralambous  
Assistant Professor  
Ph.D., Electrical Engineering  
George Washington University, 1978  

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Research  
http://people.cecs.ucf.edu/haralambous  
- The application of Kalman Filtering to Cooperative Control  
- Robust stabilization and control of certain unstable plants  
- Ocean Wave Power Generation  

Honors & Awards  
- Member, Tau Beta Pi (Engineering Honor Society)  
- Member, Eta Kappa Nu (Electrical Engineering Honor Society)  
- Teacher of the Year, Department of Electrical and Computer Engineering, 1991  
- Engineer of the Year, IEEE Orlando Section, Systems, Robotics, and Controls Chapter, 1993  

Yier Jin  
Assistant Professor  
Ph.D., Electrical Engineering  
Yale University, 2012  

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Research  
http://www.eecs.ucf.edu/~jinyier  
- Secure, trusted, and reliable processor and ASIC design  
- Cyber security and cryptography  
- Proof carrying-based hardware IP cores protection  
- Micro-processor architecture with high security and reliability  

Ongoing Research Projects  
- Toward Trusted 3rd-Party Microprocessor Cores: A Proof Carrying Code Approach (NSF)  

Professional Activities  
Technical Referee for:  
- IEEE Transactions on Computers (TC)  
- Journal of Cryptology (JoC)  
- IEEE Transaction on VLSI Systems (TVLSI)  
- IEEE Transactions on Information Forensics and Security (TIFS)  
- IEEE Design and Test on Computers (D&T)  
- Design Automation Conference (DAC)  

Honors & Awards  
- First Place Award, Embedded Systems - Malicious Processor Design Challenge of the 2011 NYU-Poly Cyber Security Awareness Week (CSAW)  
- Third Place Award, Embedded System Challenge, New York University - Polytechnic Institute, 2009  
- Second Place Award, Embedded System Challenge, New York University - Polytechnic Institute, 2008  
- Travel Award, NSF-SRC-SIGDA-DAC Design Automation Summer School, 2009  
- Honor Graduate, Zhejiang Provincial Institution of Higher Learning, The Educational Office of Zhejiang Province, China, 2005  
- Excellent Graduate Award, Zhejiang University, 2005
W. Linwood Jones  
**Professor**  
Ph.D., Electrical Engineering  
VA Polytechnic Institute & State University, 1971  

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**Research**  
http://pegasus.cc.ucf.edu/~ljones/  
- Satellite Microwave Remote Sensing for Ocean, Atmosphere and Global Climate Change  
- Microwave remote sensor technology development  
- Active (radar) and passive (radiometry) microwave sensor concepts  
- Microwave scatterometry, polarimetric radiometry, and synthetic thinned array radiometry  
- On-orbit Inter-satellite instrument radiometric calibration  
- Geophysical retrieval algorithm development: ocean vector winds and precipitation in tropical cyclones  
- Microwave radioactive transfer model development  
- Airborne & satellite microwave remote sensor computer simulation  

**Ongoing Research Projects**  
- GOLD SALMON project (NASA Headquarters)  
- Improved Active/Passive Ocean Vector Wind Retrievals (NASA Headquarters)  
- Improved Aquarius Salinity Retrievals using Auxiliary Products from the Microwave Radiometer (NASA Headquarters)  
- Improved Ocean Vector Retrievals in Extreme Wind Events (Jet Propulsion Laboratory)  
- Inter-Satellite Radiometric Calibration for the GPM Constellation (NASA Headquarters)  
- Observations of Ocean Surface Wind Speed and Rain Rate with the Hurricane Imaging Radiometer (NASA Marshall Space Flight Center)  
- Volcanic Eruption Forecasting Algorithm (Florida Space Grant Consortium)  

**Professional Activities**  
- Life Fellow, IEEE  
- Member American Geophysical Union (AGU)  
- Member - Union of Radio Scientists International (URSI), Commission-F  

**Honors & Awards**  
- Alan Berman Research Pubs Award, US Naval Research Lab, 2004  
- Group Achievement Award, NASA Headquarters, 2003, 01, 98, 97, 81

Brian Kim  
**Assistant Professor**  
Ph.D., Applied and Engineering Physics (Biophysics)  
Cornell University, 2013  

**Starting Spring 2016**  
**Contact:**  
Brian.Kim@ucf.edu  
407-823-1034  

**Research**  
- Bioinstrumentation  
- Low-noise Analog Circuit Design  
- Monolithic CMOS Biosensors and Actuators  

**Professional Activities**  
- Collaboration with Stratos Genomics, a Seattle-based biotechnology company
Mingjie Lin
Assistant Professor
Ph.D., Electrical Engineering
Stanford University, 2008

Contact:
Mingjie.Lin@ucf.edu
407-882-2298

Research
http://www.eecs.ucf.edu/~mingjie/

• Computer Architecture/Compiler, and Reconfigurable Computing
• Integrated Circuit and System Design, and Explore novel ways to construct scalable computing machine achieving both high
• How to leverage the physics of field-effect devices to compute algorithms natively?
• Bio-Inspired Logic Design with Graph and Field Theory, sponsored by NSF.
• Minimum-Energy Bio-Inspired Analogic Computing Devices with Stochastic Switching Transistors under Ultra-Low VDD, sponsored by NSF.
• Hardware-Assisted Large- Scale Neuroevolution for Multitagent Learning, sponsored by DARPA.

Ongoing Research Projects
• Bio-Inspired Logic Design with Graph and Field Theory (NSF)
• Minimum-Energy Bio-Inspired Analogic Computing Devices with Stochastic Switching Transistors under Ultra-Low VDD (NSF)

Honors & Awards
• SAIC Faculty Fellowship in Electrical Engineering

Juin J. Liou
Professor
Ph.D., Electrical Engineering
University of Florida, 1987

Contact:
Juin.Liou@ucf.edu
407-823-5339

Research
http://esd.eecs.ucf.edu/index.pl/Home

• Micro/Nanoelectronics Computer-Aided Design
• RF Device Modeling and Simulation
• Electrostatic Discharge (ESD) Protection Design and Simulation

Ongoing Research Projects
• Design, Characterization, and Optimization of High Voltage (20 to 70 volts) Electrostatic Discharge (ESD) Protection Elements for Power Management Integrated Circuits (Intersil Corporation)
• Failure Criteria Metric under ESD Stress Conditions (Analog Devices)
• RF - Development of Standardized Methodology to Correlate System ESD Pulses at Connector to ESD Pulses at IC to Enable IC Design (National Semiconductor Corp.)

Professional Activities
• Regional Editor (in USA, Canada and South America), Microelectronics Reliability
• Associate Editor, Simulation Journal (VLSI and Circuit Simulation area)
• Guest Editor, Microelectronics Reliability Special Issue, “Reliability of Compound Devices and ICs”, vol. 35, issue 3, 1996
• Guest Editor, Microelectronics Reliability Special Issue, “2009 International Electron Devices and Materials Symposium”, vol. 50, issue 5, 2010
• IEEE EDS Treasurer

Honors & Awards
• Pegasus Professor, University of Central Florida, USA
• Fellow, IEEE (Citation: for contributions to development of electrostatic discharge protection of integrated circuits)
• Fellow, IET (Citation: for sustained and outstanding contributions to electron device research and education)
• Fellow of Singapore Institute of Manufacturing Technology
• Fellow of UCF-Analog Devices, University of Central Florida, USA
Donald Malocha
Professor
Ph.D., Electrical Engineering
University of Illinois, 1977

Contact:
Donald.Malocha@ucf.edu
407-823-2414

Research
http://caat.engr.ucf.edu/people/malocha/malocha.htm

• Surface and Bulk Acoustic Wave Device Technology
• Communication Theory and Wireless Systems
• Wireless Sensor Devices and Systems
• New Piezoelectric Materials and Their Characterization
• Solid State Device Theory, Modeling, and Fabrication
• Acoustoelectronic Based Communication Systems

Other Experience
• MTS, Corporate Research Laboratories, Texas
• Instruments, Dallas
• Manager of Advanced Product Development, Sawtek, Orlando
• Visiting scholar, Swiss Federal Institute of Technology, Zurich, Switzerland
• Visiting scholar, University of Linz, Austria
• Visiting member of the Technical Staff, Motorola's Advanced Components Tech Group, Phoenix, AZ and Cellular Radio Group, Ft. Lauderdale, FL.

Professional Activities
• Associate Editor of the IEEE UFFC Transactions
• US delegate, IEC TC-49 Standards
• General or Technical Program Chair for several IEEE International Frequency Control Symposia, IEEE International Ultrasonics Symposium, and European Frequency and Time Forum
• Member Emeritus of the IEEE UFFC AdCom
• Past chair of the IEEE Orlando Section and the founder of the Orlando UFFC chapter

Honors and Awards
• Pegasus Professor
• IEEE Fellow
• 2012 CECS Dean’s Research Professorship Award
• 2008 IEEE UFFC Distinguished Service Award
• 2005 Juergen Staudte Memorial Award, PDA
• 2004 UCF Researcher of the Year
• 2000 IEEE Third Millennium Medal
• 1998 David P. Larsen Award
• 1996 & 1997 IEEE International UFFC-S President
• UCF Research Incentive Award, 1999 & 2004
• Martin/St. Laurent Professor, 1994-2000, UCF

Wasfy B. Mikhael
Professor
Ph.D., Electrical Engineering
University of Concordia, 1973

Contact:
Wasfy.Mikhael@ucf.edu
407-823-3210

Research
http://people.cecs.ucf.edu/mikhael

• Digital Signal Processing
• Adaptive Signal Processing
• One and Multidimensional Signal Compression
• Filtering with Applications
  • Speaker Recognition
  • Image Classification
  • Interference Cancellation in Wireless Communications

Professional Activities
• Has more than 300 refereed publications
• Holds several patents in his field
• Serves on editorial boards
• Chaired several international, IEEE and other conferences
• Served as VP for the IEEE Circuits and Systems Society
• Chair of the Midwest Symposium on Circuits and Systems steering committee membership

Honors & Awards
• Fellow, IEEE, 1987
• Teaching Incentive Award (TIP), COECS, UCF, (TIP), April, 2011
Zhihua Qu
Professor and Chair,
Department of ECE
Director of FEEDER Center
Ph.D., Electrical Engineering
Georgia Institute of Technology, 1990

Contact:
qu@ucf.edu
407-823-5976

Research  http://www.ece.ucf.edu/~qu

• Systems Theory and Control
• Optimization and Control of Networked Dynamical Systems
• Distributed Control and Optimization for Smart Grid
• Autonomous Vehicle Systems
• Medical Robotics

Ongoing Research Projects
• FEEDER (Foundations for Engineering Education for Distributed Energy Resources) Consortium, one of the national-network centers funded under the GEARED program (US Department of Energy)
• Electric Vehicle Transportation Center, a Tier-1 University Transportation Center (US Department of Transportation)
• Self-organizing Control and Scalable Game-theoretical Dispatch of Distributed Generations for High-Penetration Smart Grids (NSF)
• Novel Guidance and Control Algorithms for Missile Defense Systems (L-3 Communications Coleman Aerospace)
• Electric Power Markets, Case Studies, and Energy Management System (Leidos)
• Smart Grid Control (Texas Instruments)

Professional Activities
• Associate Editor, Automatica
• Associate Editor, IEEE ACCESS
• Advisory Board, International Journal of Robotics and Automation
• Board of Directors, ECEDHA
• Vice President, SECEDHA
• Director, ECE Systems & Control Laboratory
• Director, ECE Robotics Laboratory
• Director, UCF Medical Robotics Laboratory

Honors & Awards
• Fellow, IEEE
• Fellow, AAAS
• SAIC Endowed Professorship
• Pegasus Professor
• Lockheed Martin Corporate Award
• Technology Transfer Award, NASA
• ECEDHA service award

Nazanin Rahnavard
Associate Professor
PhD, Electrical and Computer Engineering
Georgia Institute of Technology, 2007

Contact:
nazanin@eecs.ucf.edu
407-823-1762

Research  http://www.eecs.ucf.edu/~nazanin

• Compressive Sensing: New Designs and Applications
• Modern Error-Control Coding
• Coding and Compressive Sensing for Multimedia Applications
• Cooperative Spectrum Sensing and Access in Cognitive Radio Networks
• Wireless Ad-hoc and Sensor Networks
• Distributed Data Storage

Ongoing Research Projects
• Generalized Compressive Sensing for Data Acquisition and Ad-Hoc Sensor Networking (NSF)
• Cooperative Spectrum Sensing and Access in Cognitive Radio Networks (NSF)

Professional Activities
• Frequent NSF Panel Reviewer
• Associate Editor for Elsevier Computer Networks Journal
• Member of Technical Program Committee for numerous conferences such as IEEE International Symposium on Information Theory (ISIT), IEEE Global Communications (Globecom), Military Communications (MILCOM), IEEE International Conference on Communications (ICC)
• Session Chair: MILCOM 2011

Honors & Awards
• National Science Foundation CAREER award (2011)
• Outstanding Research Award, Center for Signal and Image Processing, Georgia Institute of Technology, 2007
Samuel M. Richie
Associate Professor, Associate Chair and Undergraduate Program Coordinator of ECE
Ph.D., Electrical Engineering
University of Central Florida, 1989

Contact:
richie@ucf.edu
407-823-5765

Research [link]
- Surface Acoustic Wave (SAW) Device Modeling
- SAW Device Computer Aided Design
- Transversal Filter Design Theory
- Voice Recognition Systems
- Non-Invasive Blood Pressure
- Image Processing

Marwan Simaan
Florida 21st Century Chair and Distinguished Professor
Ph.D., Electrical Engineering
University of Illinois at Urbana-Champaign, 1972

Contact:
simaan@eecs.ucf.edu
407-882-2220

Research [link]
- Optimization and Control
- Signal Processing
- Knowledge-Based Signal Processing and Control

Ongoing Research Projects
- Self-organizing Control and Scalable Game-theoretical Dispatch of Distributed Generations for High-Penetration Smart Grids (NSF)
- FEEDER Center (DoE)
- The 21st Century World Class Scholars Program - Simaan Endowed Chair (Florida Board of Governors)

Professional Activities
- IEEE Education Medal Committee
- Member, IEEE Access Editorial Board
- Member, AAAS Engineering Section Steering Committee
- Member, IEEE Systems Journal Editorial Advisory Board
- Member, Integrated Computer-Aided Engineering Editorial Advisory Board

Honors & Awards
- Member, National Academy of Engineering
- Life Fellow, IEEE
- Fellow, NAI
- Fellow, ASEE
- Fellow, AAAS
- Fellow, AIMBE
- Fellow, Electromagnetics Academy
- Distinguished ECE Alumnus Award, Univ. of Illinois
- Distinguished Service in Engineering Award, Univ. of Illinois
- IEEE William E. Sayle Award for Achievement in Education
Wei Sun  
Assistant Professor  
PhD, Electrical Engineering  
Iowa State University, 2011

Contact:  
sun@uoc.edu  
407-823-2344

Research  
http://www.eecs.ucf.edu/~weisun

- Power System Restoration and Resilience  
- Self-healing Smart Grid  
- Microgrid and Data Centers  
- Renewable Energy and Smart Grid Sustainability

Ongoing Research Projects
- Collaborative Research: An Intelligent Restoration System for a Self-healing Smart Grid (IRS-SG) (NSF)  
- Demonstration of Optimal Blackstart Capability (OBC) Software Tool on PJM System (EPRI)

Professional Activities
- Panelist and reviewers for NSF and DoE  
- Task Lead of Restoration from Cascading Failures in IEEE PES CFWG Working Group  
- TPC Member, Clemson University Power Systems Conference  
- Reviewer for IEEE Transactions on Power Systems, Smart Grid, Power Delivery, Sustainable Energy and other journals

Honors & Awards
- Microsoft Software Engineering Innovation Foundation Award (2014)

Kalpathy Sundaram  
Professor and ECE Graduate Coordinator  
Ph.D., Electrical Engineering  
Indian Institute of Technology, 1980

Contact:  
sundaram@eecs.ucf.edu  
407-823-5326

Research  
http://people.cecs.ucf.edu/sundaram

- Microelectronics  
- Optoelectronic Materials  
- Thin Films  
- Micromachining

Ongoing Research Projects
- RF: Preparation of Boron Carbon Nitride (BCN) films by RF Sputtering using dual target approach (Intel Corporation)

Professional Activities
- IEEE Senior Member  
- Member of Electrochemical Society  
- IEEE Orlando Section, Education chair, Historian  
- IEEE Orlando Section and IEEE Florida Council PACE Chair  
- Technical Program Chair, SouthEastcon 2012, Orlando

Honors & Awards
- Fellow, Electrochemical Society (ECS 2013)  
- 2008 Outstanding Engineer, IEEE Region-3  
- 2008 Teaching Incentive Program (TIP) Award given by UCF  
- 2011 Outstanding Service Award, IEEE Region-3  
- 2015 Thomas Callinan Award given by the Dielectric Science & Technology Division of the Electrochemical Society (ECS).  
- 2014 IEEE Student Award
Azadeh Vosoughi  
Associate Professor  
PhD, Electrical and Computer Engineering  
Cornell University, 2006  
Contact:  
azadeh@ucf.edu  
407-882-0137  
Research  
http://www.eecs.ucf.edu/~vosoughi  
• Communication theory and wireless communications  
• Detection and estimation theory 
• Distributed detection, estimation, and data fusion with communication constraints  
• Optimization and fundamental limits of cooperative wireless data communication networks  
• Spectrum sensing for cognitive radio networks  
• Modern communications for smart grids 
• Brain signal processing  
• Enhanced radio spectrum via directional sensing and communications  

Ongoing Research Projects  
• Collaborative Research: Advanced Ion Channel Models for Neurological Signal Processing – Theory and Application to Brain-Computer Interfacing (NSF)  
• Collaborative Research: EARS: Directional Spectrum Sensing and Communications Utilizing Beam- and Frequency-Agile Parasitic Antenna Arrays (NSF)  
• Power-Constrained Distributed Vector Estimation in Wireless Sensor Networks (NSF)  
• CAREER: M-ary Distributed Detection in Wireless Sensor Networks (NSF)  
• Foundations for Engineering Education for Distributed Energy Resources (DoE)  

Parveen F. Wahid  
Professor  
Ph.D., Electrical Communication Engineering  
Indian Institute of Science, Bangalore, India, 1979  
Contact:  
Parveen.Wahid@ucf.edu  
407-823-2610  
Research  
http://cecs.ucf.edu/wahid  
• Antenna Miniaturization  
• Antennas for Biomedical Applications  

Professional Activities  
• General Chair, IEEE APS/USNC-URSI International Symposium, 2013  
• IEEE WIE Committee Member, 2012-2014  
• Associate Editor, IEEE Antennas and Propagation Magazine, 2001  
• Reviewer, IEEE Transactions on Antennas and Propagation  
• Reviewer IEEE Antennas and Wave Propagation Letters  
• IEEE Orlando Section, Chair WIE Committee, 2012  

Honors and Awards  
• Provost Faculty Fellow, 2013  
• Women of Distinction: Excellence in Mentoring Award, UCF Center for Success of Women Faculty, 2012  
• Provost Teaching Faculty Fellow, 2011  
• Teaching Incentive Program (TIP), College of Engineering and Computer Science Excellence in Teaching Award, 2010  
• Excellence in Professional Service Award, College of Engineering and Computer Science, 2010  

Professional Activities  
• Associate Editor, IEEE Wireless Communications Transactions (2012-2015)  
• Associate Editor, IEEE Signal Processing Letters (2012-present)  
• Associate Editor, IEEE Signal Processing Magazine (2012-2015)  
• Technical Program Chair of IEEE WISEE 2015  
• Technical Track Vice Chair of IEEE DCOSS 2014  
• Technical Track Co-Chair of IEEE PIMRC 2014  

Honors & Awards  
• NSF Faculty Early Career Award (2011)  
• Wilmot Assistant Professor in College of Arts, Sciences, and Engineering at the University of Rochester  
• Recipient of Furth Award for Junior Faculty at the University of Rochester (2006)  
• Senior Member of IEEE
Jun Wang
Associate Professor
Ph.D., Computer Science and Engineering
University of Cincinnati, 2002

Contact:
Jun.Wang@ucf.edu
407-823-0449

Research
http://www.eecs.ucf.edu/~jwang

- High End File and Storage Systems
- Big Data Computer Systems
- Massive Storage and File Technology
- Data Intensive Computing

Ongoing Research Projects
- CAREER: Data-Intensive HPC Analytics: A systems approach through extended interfaces, data restructuring and data-centric scheduling (NSF)
- XPS: Collaborative Research: A Scalable and Distributed System Framework for Compute-Intensive and Data-Parallel Applications (NSF)
- Multi-criteria optimization control for temperature constrained energy efficient data center using fuzzy decision making theory (NSF)
- GOLD SALMON project (NASA Headquarters)
- NASA: The Global-scale Observations of the Limb and Disk (GOLD)

Professional Activities
- Program committee co-chair in the 10th IEEE NAS (Network, Architecture, and Storage) 2015, Boston, MA, USA, Aug. 2015
- Editorial board (Associate Editor) for the International Journal of Parallel, Emergent and Distributed Systems (IJPEDS) 2011-2012
- Associate editor for the IEEE Transactions on Parallel and Distributed Systems 2012
- Program committee vice chair for the IEEE ScaleCom (Scalable Computing) 2012
- Program committee co-chair (storage track) in the 7th IEEE NAS (Network, Architecture, and Storage) 2012

Honors & Awards
- UCF Reach For The Star Award 2015
- University of Central Florida Dean’s Research Professorship Award 2013
- University of Central Florida Research Incentive Award 2010
- Charles N. Millican Faculty Fellow in EECS at University of Central Florida, 2010
- US National Science Foundation Early Career Award, 2009
- US Department of Energy Early Career Principal Investigator Award, 2005
- Senior Member of IEEE

Arthur Weeks
Associate Professor
Ph.D., Electrical Engineering
University of Central Florida, 1987

Contact:
Arthur.Weeks@ucf.edu
407-823-0767

Research
http://people.eecs.ucf.edu/weeks/

- Biomedical Sensors
- Patient Monitoring
- Tele Healthcare
- Image Processing
- Wireless Computing

Honors & Awards
- 2009-2010 Teaching Incentive Program Award
Lei Wei
Associate Professor
Ph.D., Electrical Engineering
University of South Australia, 1996

Contact:
Lei.Wei@ucf.edu
407-823-5098

Research  http://people.eecs.ucf.edu/lei/

• Bio-logically inspired signal processing
• Modulation and error control coding
• Wireless communications
• Homeland security for campus emergency alert

Ongoing Research Projects
• Collaborative Research: RET in Engineering and Computer Science Site: Research Experiences for Teachers focused on Applications of ImagEs and SiGnals In High Schools (NSF)

Professional Activities
• Member of Technical Program Committee and Section Chair of Southeastcon 2012, Orlando, FL

Honors & Awards
• Who's Who in America, 2010
• Semi-finalists in Homeland Security Awards from Columbus Fellowship in June 2007

Thomas X. Wu
Professor
Ph.D., Electrical Engineering
University of Pennsylvania, 1999

Contact:
Thomas.Wu@ucf.edu
407-823-5957

Research  http://www.eecs.ucf.edu/~tomwu

• Advanced Electric Machinery
• Energy Device and System
• Aircraft Generator and Electromechanical Actuator
• Multi-Physics Based Modeling and Simulation of Energy System

Ongoing Research Projects
• Thermal Management of Aircraft High Performance Electrical Actuation System (Rini Technologies, Inc., AFRL SBIR)
• Photovoltaic Power Electronics Research Initiative (PERI) for developing low cost, ultra-compact, three-phase micro inverters or "AC bricks" (DOE)
• Design of High Efficiency Electric Motor for Renewable Energy Application (Maglev Energy, Inc.)
• Advanced Modeling Techniques for Electric Machines (ANSYS Corp.)
• Advanced Golf Swing Training System (DNA Sports Trainer LLC)

Professional Activities
• Technical Program Committee, 2012-2014 IEEE ECCE Conference.
• Associate Editor, IEEE Trans. on Industrial Applications, 2013 – present
• Electric Machinery Committee, IEEE Power and Energy Society, 2013 – present
• Electric Machinery Committee, IEEE Industrial Applications Society, 2012 – present
• Transportation Committee Member, IEEE Industrial Applications Society, 2012 – present

Honors & Awards
• National Research Council (NRC) – Air Force Research Lab (AFRL) Senior Research Fellow, Aug. 2010 – Aug. 2012
• Air Force Summer Faculty Fellow, Summer 2010 and 2009
• School of EECS Distinguished Researcher Award, Jan. 2010
Jiann S. Yuan
Professor
Ph.D. Electrical Engineering
University of Florida, 1988

Contact:
Jiann-Shium.Yuan@ucf.edu
407-823-5719

Research
https://sites.google.com/site/yuanjs168/

- Semiconductor devices and ICs
- Analog, mixed-signal, and RF circuits
- RF energy harvesting for biomedical ICs
- Neural signal recording IC design
- LDMOS power loss and reliability analysis
- Hardware security
- Internet of things

Ongoing Research Projects
- Industry/University Cooperative Research Center: Multifunctional Integrated System Technology (MIST), NSF, Principal Investigator
- REU Supplement, NSF, Principal Investigator
- Information Assurance for Secure Mobile Healthcare Systems, Florida Center for Cybersecurity, Principal Investigator

Professional Activities
- Editor, IEEE Transactions on Device and Materials Reliability, 2002-present
- Distinguished Lecturer, IEEE Electron Devices Society, 2006-present

Honors & Awards
- Excellence in Research Award at the full Professor level, College of Engineering and Computer Science, 2015
- RIA Award, University of Central Florida, 2004
- Distinguished Lecturer, IEEE Electron Devices Society, 2006-present
- Outstanding Engineering Award, IEEE Orlando Section, 2002
- Outstanding Researcher Award, College of Engineering and Computer Science, 2002
- Outstanding Engineering Educator Award, Florida Council of IEEE, 1993

Qun Zhou
Visiting Assistant Professor
Ph.D. Electrical Engineering
Iowa State University, 2011

Contact:
Qun.Zhou@ucf.edu
407-823-3284

Research
http://www.eecs.ucf.edu/~qzhou/

- Power Economics and Power Market
- Renewable Energy Integration
- Energy Forecasting
- Microgrids

Professional Activities
Technical Referee for:
- IEEE Transactions on Power Systems
- IEEE Transactions on Smart Grid
- IEEE Power Engineering Letters
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Department of Electrical and Computer Engineering

Facts & Figures

EE and CpE Programs

• BSEE, BSCpE
• MSEE, MSCpE
• PhDEE, PhDCpE

US News and World Report Best Graduate Schools (2016 Rankings)

• CpE: 58 out of 94 schools
• EE: 52 out of 123 schools (30th among all public schools)

Full-Time Faculty

• 29 Tenured / Tenure-Track Faculty (13 Professors, 9 Associate Professors, 7 Assistant Professors)
• 5 Lecturers and 1 Instructor

External Recognitions

• 1 Member of National Academy of Engineering
• 7 Fellows of IEEE
• 3 Fellows of AAAS
• 1 Fellow of ASEE
• 1 Fellow of ECS
• 4 NSF Career Awardees
• 1 Member of National Academy of Inventors

Degrees Conferred (AY 2014-2015)

• 145 BSEE and 101 BSCpE
• 55 MSEE and 18 MSCpE
• 14 PhDEE and 2 PhDCpE

Centers Competitively Awarded at the National Level

• FEEDER Consortium, one of national-network centers funded by US Department of Energy under the GEARED program, 2013-2018
• MIST Center, an I/UCRC on Multi-functional Integrated System Technology, funded by NSF, 2014 - 2019
• Electric Vehicle Transportation Center, a Tier-1 University Transportation Center funded by US Department of Transportation, 2013-2017