FACULTY RESEARCH PROFILES
ELECTRICAL & COMPUTER ENGINEERING

TABLE OF CONTENTS

INTRODUCTION .................................................................................................................. 3
CONTACT INFORMATION – DEPARTMENT OF ECE.............................................................. 4
FACULTY RESEARCH PROFILES ..................................................................................... 5

Reza Abdolvand ................................................. 6
Mahdi Assefzadeh ........................................... 6
George Atia .................................................... 7
Amro Awad .................................................... 7
Issa Batarseh .................................................. 8
Aman Behal ..................................................... 8
Kenle Chen ..................................................... 9
Ronald DeMara .............................................. 9
Aleksandar Dimitrovski ......................... 10
Chinwendu Enyioha ................................ 10
Rickard Ewetz ................................................ 11
Yaser P. Fallah ............................................. 11
Michael Georgiopoulos .............................. 12
Xun Gong .................................................... 12
Zhishan Guo ................................................ 13
W. Linwood Jones ..................................... 13
Brian Kim ...................................................... 14
Qifeng Li ....................................................... 14

Mingjie Lin...................................................... 15
Wasfy B. Mikhael ....................................... 15
Junjian Qi .................................................... 16
Zhihua Qu .................................................... 16
Nazanin Rahnavard ................................. 17
Marwan Simaan ......................................... 17
Wei Sun ...................................................... 18
Kalpathy Sundaram ................................. 18
Azadeh Vosoughi ..................................... 19
Parveen F. Wahid ....................................... 19
Jun Wang .................................................... 20
Arthur Weeks ........................................... 20
Lei Wei ....................................................... 21
Fan Yao ..................................................... 21
Jiann S. Yuan ............................................ 22
Murat Yuksel ............................................. 22
Qun Zhou .................................................... 23

ECE FACTS AND FIGURES .................................................................................. 24

Edited by: Linda Lockey, Adm. Support
Welcome to 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 research is categorized into the following four focus groups, each of which consists of several areas:

- **Computer Systems and VLSI**
  - 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 Dynamic Games
  - Autonomous Robotic Vehicles, Medical and Assistive Robotics
  - Smart Grids and Energy Systems, 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
Chair, Department of ECE
CONTACT INFORMATION
DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

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Kalpathy Sundaram, Professor & Graduate Coordinator of ECE, 407-823-5326, Kalpathy.Sundaram@ucf.edu

TENURE/TENURE-TRACK FACULTY AND RESEARCH FACULTY

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

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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 and Projection
- Micro-fabrication

Ongoing Research Projects
- Passive Wireless Resonant Sensors (NSF)
- Acousto-Electric Amplification in Composite Piezoelectric-Silicon resonant Cavities (NSF)
- Ultra-stable MEMS Oscillators (Intel)
- Piezoelectrically-Actuated Micro-Mirrors (Truventic/Airforce)
- Wireless and Battery-Less Vibration Sensors (Lorand Technologies/NSF/NASA)

Professional Activities
- Lead faculty at the UCF central cleanroom operation
- Member of the departmental graduate program committee
- Frequent NSF panel reviewer
- Technical Program Committee member in IEEE UFFC

Honors & Awards
- UCF Teaching Incentive Program Award (2019)
- Excellence in Undergraduate Teaching Award (2018)
- Granted 12 US patents

Mahdi Assefzadeh
Assistant Professor
Ph.D., Electrical and Computer Engineering
Rice University, 2018

Contact:
Mahdi.Assefzadeh@ucf.edu
407-823-5957

Research: http://www.ece.ucf.edu/assefzadehlab
- High-complexity millimeter-wave and Terahertz (THz) signal generation and detection circuits
- Ultrahigh-speed silicon-based transceivers
- Large-scale high-efficiency/sensitivity CMOS beamforming arrays
- Chip-scale sensing and spectroscopy
- Hybrid electronic-photonic systems and quasi-optics

Ongoing Research Projects:
- Ultra broadband silicon-based THz radiators and detectors with programmable spectrum
- Near-field sensors for super-resolution microfluidic imaging and biomolecular assay
- Novel quasi-optical solutions for high-sensitivity far-field spectroscopy

Professional Activities:

Honors & Awards
- IEEE SSCS Pre-doctoral Achievement Award and MTT-S Graduate Fellowship (2017 and 2018)
- Best paper award (2nd place) in IEEE Antennas and Propagation International Symposium (2016)
- Best paper award (1st place) in IEEE Radio and Wireless Symposium (2016)
- Best paper award (1st place) in IEEE International Microwave Symposium (2014)
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/](http://www.eecs.ucf.edu/~atia/)  
- Statistical and sparse signal processing  
- Machine learning and big data analytics  
- Controlled sensing and stochastic control  
- Optical signal processing  
- Neurological modeling and brain computer interfacing  
- Security of cyber-physical systems  
- Cooperative communications and dynamic spectrum sharing  

**Ongoing Research Projects**  
- Inference-Driven Data Processing and Acquisition: Scalability, Robustness and Control (NSF)  
- Development of Diffraction-Free Space-Time Optical Beams (ONR)  
- Advanced Ion Channel Models for Neurological Signal Processing (NSF)  

**Professional Activities**  
- Senior Member, IEEE  
- Technical Committee Member, Machine Learning for Signal Processing (MLSP), 2017-Present.  
- NSF Panel Reviewer  

Amro Awad  
**Assistant Professor**  
Ph.D., Computer Engineering  
North Carolina State University, 2016  

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407-823-1304  

**Research:** [https://sites.google.com/site/amroawad/home](https://sites.google.com/site/amroawad/home)  
- Computer Architecture  
- Memory Systems  
- Hardware Security  
- Emerging Non-Volatile Memories (NVMs)  
- Next-Generation Data Centers  

**Ongoing Research Projects**  
- Non-Volatile Memory Encryption and Data Integrity Verification  
- Study for Using Emerging NVMs on Disaggregated Memory Systems  

**Professional Activities**  
- Frequent NSF panel reviewer  
- Conference Program Committee Membership: HSWC 2017, ISCA 2017, ISCA 2017 (EPC)  
- Technical reviewer for several journals including: IEEE Computer Architecture Letters (CALS), IEEE Transactions on Computer (TC) and Transactions on Very Large Scale Integration Systems (TVLSI)  

**Honors & Awards**  
- Awards for filing several patents with AMD Research and HP Labs, Dean’s and University’s honor lists in JUST University
Issa Batarseh
Professor
Ph.D., Electrical Engineering
University of Illinois at Chicago, 1990

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407-823-0185

Research: http://fpec.ucf.edu
- Power Electronics
- Energy Conversion
- Grid-tied Inverters
- Smart Distributed Solar Energy
- Photovoltaics (PV) Systems

Ongoing Research Projects
- High-Density Soft-Switching Multi-Port Photovoltaic Power Manager
- Integrated Solar energy with Storage
- Florida Energy Systems Consortium (State of Florida)

Professional Activities
- Director of the Florida Power Electronics Center
- NASA Technical Board Member
- 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
- IEEE PELS David Middlebrook Achievement Award, 2019
- Florida Inventors Hall of Fame, Inductee, 2017
- National Academy of Inventors (NAI) Fellow, 2016
- Research Incentive Award, 2011, 2015
- FES Outstanding Technical Achievement Award, 2017 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

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

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Aman.Behal@ucf.edu
407-882-2820 & 407-823-3276

Research: http://www.eecs.ucf.edu/~abehal/
- Robotics
- Wheelchair Mounted Assistive Robotic Arms
- Autonomous and Semi-Autonomous Control
- Human Robot and Human Computer Interaction
- Applications of Computer Vision
- Applied Nonlinear Controls

Ongoing Research Projects
- CHS: Small: Empowerment of Disabled Individuals via an Adaptive Framework for Indirect Human-Robot Interaction (NSF)
- CHS: Medium: Collaborative Research: Social Learning in Mixed Human-Robot Groups for People with Disabilities (NSF)

Professional Activities
- Associate Editor, IEEE Transactions on Control Systems Technology
- Associate Editor, Journal of Aerospace Engineering
- Associate Editor, Conference Editorial Board, IEEE Control Systems Society
- Proposal Reviewer for NSF, NIDILRR, NIH, NASA, NMSS

Honors & Awards
- Senior Member – IEEE
- Charles N. Millican Faculty Fellow, 2016
- UCF Millionaires Club, 2015
Kenle Chen
Assistant Professor
Ph.D., Electrical Engineering
Purdue University, 2013

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Research: https://kenlechen.wixsite.com/inspire
- Radio-frequency and millimeter-Wave integrated circuits
- Future-generation (5G) wireless communication systems
- High-speed, wideband, and high-efficiency radio solutions
  Reconfigurable high-frequency circuits
- Interdisciplinary applications of radio technology

Ongoing Research Projects
- Linear, efficient, and wideband RF PAs/transmitters for 5G and beyond (NSF ECCS, https://www.nsf.gov/awardsearch/show/Award?AW_D_ID=1914875&HistoricalAwards=false)
- High-efficiency millimeter-Wave power amplifiers and transmitters (NSF I-UCRC)
- Mode-reconfigurable RF power amplifiers (internally funded)
- Advanced carrier-aggregation and MIMO radio-frontend architectures (internally funded)

Professional Activities
- Associate Editor: IEEE Transactions on Microwave Theory and Techniques
- Chair: IEEE MTT-S/AP-S Orlando Chapter
- Active Referee: 15 International Journals, e.g., TMTT, MWCL, TCAS-I, TCAS-II, and TBioCAS.
- TPC Member: WAMICON
- TPRC Member: IMS, WAMICON
- Conference Session Chair: IMS,WAMICON

Honors & Awards
- 1st-Place Winner in IEEE MTT-S Student Design Competition (2018, 2019, as advisor)
- IEEE WAMICON Best Student Paper Award (2019, as advisor)
- IEEE MTT-S Doctoral Fellowship (2012)

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/
- Computer Systems Design and Architecture
- Emerging Computing Devices for Machine Learning
- Adaptive and Reconfigurable Hardware

Ongoing Research Projects
- Probabilistic Spin Circuits & Benchmarking (Semiconductor Research Corporation (SRC), 2017-2020)
- Cross-layer Adaptive Rate/Resolution Design for Energy-Aware Acquisition of Spectrally Sparse Signals Leveraging Spin-based Devices (NSF, 2018-2021)
- Digitizing and Remediating STEM Assessments (ITPF, Technology Fee Award, 2016-present)

Professional Activities
- Keynote: IEEE 24th Reconfigurable Architectures Workshop
- Topical/Senior Editor of IEEE Transactions on Computers
- Technical Program Committee member of IEEE Symposium Series on Computational Intelligence (SSCI), IEEE Annual Symposium on VLSI (ISVLSI), IEEE Non-Volatile Memory Systems and Applications Symposium (NVMSA), Workshop on Energy-Efficient Big Data Analytics, Track chair of ACM Great Lakes Symp. on VLSI (GLSVLSI)
- NSF Panelist and Reviewer for various IEEE/ACM/ASEE journals and conferences
- IEEE Senior Member, Member of ACM, ASEE, and AAAS

Honors and Awards
- Online Learning Consortium (OLC) Effective Practice Award (2018)
- Marchioli Collective Impact Award (2017)
- Scholarship of Teaching & Learning Award (2017, 2008)
- Excellence in Undergraduate Teaching (2017)
- Research Incentive Award (2009, 2004)
- Distinguished Research Lecturer, Advisor of Year
Aleksandar Dimitrovski
Associate Professor
Ph.D., Power Engineering
Saints Cyril and Methodius University, 1997

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407-823-4183

Research: http://www.eecs.ucf.edu/dimitrovski
- Modeling and Analysis of Uncertain Power System
- Magnetic-Electronic Power Controllers
- Parallel Simulation of Large Power Systems
- Power System Protection
- Microgrid Protection and Control

Ongoing Research Projects
- Magnetic Amplifier for Power Flow Control (US DOE)
- Power System Parallel Dynamic Simulation Framework for Real-Time Wide-Area Protection and Control (US DOE)
- Scalable/Secure Cooperative Algorithms and Framework for Extremely-high Penetration Solar Integration (US DOE)

Professional Activities
- IEEE Senior Member
- Member of CIGRE (International Council on Large Electric Systems)

Honors and Awards
- Fulbright Scholar (2016)
- R & D 100 (2014)

Chinwengu Enyioha
Assistant Professor
Ph.D., Electrical & Systems Engineering
University of Pennsylvania, 2014

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407-823-0122

Research: http://enyioha.eecs.ucf.edu
- Distributed optimization, decision theory and control over networks
- Resource-aware computation in distributed systems
- Safety and security in Cyber-physical systems (CPSs)

Ongoing Research Projects
- Resource Management with Limited Communications in CPNs
- Segmentation for Safety in CPS.

Professional Activities
- Invited session organizer and co-chair, IEEE American Control Conference (2016)
- Session Chair, IEEE American Control Conference (2018)
- Technical Reviewer for several IEEE/ACM conferences and journals including the IEEE Transactions on Automatic Control (TAC), Transactions on Network Science and Engineering (TNSE), Transactions on Control of Networked Systems (TCNS), Journal of Optimal Control, Applications and Methods, amongst others
- Member, IEEE and SIAM.
- Member, Technical Program Committee, ICCPS 2020

Honors and Awards
- Fellow, Ford Foundation (administered by the NRC of the National Academies)
- William Fontaine Scholar, University of Pennsylvania
- Patterson Award, Mathematical Association of America (MAA) Southeast section
Rickard Ewetz
Assistant Professor
Ph.D., Electrical and Computer Eng.
Purdue University, 2016

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407-823-4766

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

- Computer-aided design (CAD) for very large scale integration (VLSI)
- Physical Design: Clock network synthesis and timing driven placement
- Optimization and design of memristor crossbars with applications within neuromorphic computing and deep learning.
- CAD for applications in emerging domains as bio-chips, cloud computing, and data analytics
- Security for Emerging Non-Volatile Memories (NVMs)

Professional Activities
Technical Referee for:
- ACM Design Automation of Electronic Systems (TODAES)
- Integration, the VLSI Journal
- International Symposium on Physical Design (ISPD)

Honors and Awards

Yaser P. Fallah
Associate Professor
Ph.D., Electrical and Computer Engineering
University of British Columbia, 2007

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Research: http://cavrel.eecs.ucf.edu/

- Networked Cyber-Physical Systems: Modeling of Hybrid Systems
- Intelligent Transportation Systems: Connected and Automated Vehicles, Electric Vehicles
- Wireless Communication and Networking
- Smart Cities, Transportation and Energy Systems
- Cooperative Perception and Environment Modeling for Automated Vehicles

On-going research projects:
- CAREER: Multi-Resolution Model and Context Aware Information Networking for Cooperative Vehicle Efficiency and Safety Systems, National Science Foundation, NSF CAREER - PI
- V2V Communication Research: Safety Networks, Communication and Congestion Control, CAMP (US-DoT NHTSA) – PI
- Perceptive Stochastic Coordination in Mass Platoons of Automated Vehicles, collaborative project with Univ. of Georgia, Universität Hamburg and Universität Koblenz-Landau, NSF -PI
- Cooperative Vehicle Safety System Emulation, Ford Motor co, PI
- Autonomous Vehicle Information Networking and Sensor Processing, Toyota ITC, USA – PI
- Robust Connected Vehicle Applications using Dynamic Object Map Architecture, Hyundai-Kia, USA - PI

Professional Activities
- Associate Editor, IEEE Transactions on Vehicular Technology
- Chair, IEEE Connected and Automated Vehicles Symp., 2018 and 2019
- Chair, Program Committee, IEEE International Symposium on Wireless Vehicular Comm., WiVEC 2011, 2014
- Steering Committee Member, IEEE Connected Vehicle Initiative (VTS)
- Workshop Chair, IEEE Cyber Science and Tech. Conf. 2017
- Chair, IEEE Workshop on V2X Communication: Applications and Technology, Oct. 2015
- Co-Chair, Technical Program Committee, Conference on Smart Urban Mobility Services (SUMS) 2015

Honors and Awards
- Outstanding Researcher Award - West Virginia University, College of Engineering (2016)
- NSF Career Award (2015)
- NSERC Canada Post-Doctoral Fellowship (2008)
- Bell Canada Graduate Award (2005)
Michael Georgiopoulos  
Professor, Dean of CECS  
Ph.D., Electrical Engineering  
University of Connecticut, 1986

Contact:  
Michaelg@ucf.edu  
407-823-5338

Research: http://www.eecs.ucf.edu/georgiopoulos/  
- Machine Learning  
- Pattern Recognition  
- Applications of Machine Learning

Ongoing Research Projects  
- Collaborative Research: RET in Engineering and Computer Science Site: Research Experiences for Teachers focused on Applications of ImageEs and SiGnals In High Schools (NSF)  
- UCF COMPASS: Convincing Outstanding-Math-Potential Admits to Succeed in STEM (NSF)  
- CAMP-YES (Career Advancement Young Entrepreneur and Scholar (YES) Scholarship Program (NSF)  
- Flit-Path, Collaborative Research: Florida-IT Pathways to Success (NSF)

Professional Activities  
- Senior Member IEEE

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

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

Contact:  
Xun.Gong@ucf.edu  
407-823-5762

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)  
- Integrating High Frequency Whispering – Gallery Mode Phononic Cavities with Efficient Electrically-Small Antennas: Pushing the Limits of Wireless Passive Sensing (NSF)  
- EARS Directional Spectrum Sensing and Communications Utilizing Beam- and Frequency-Agile Parasitic Antenna Arrays (NSF)

Professional Activities  
- General Chair: 2012 WAMICON and 2016 iWAT  
- ExCom Member: IMS, WAMICON, SiRF, IMBioC  
- TPC Chair: AP-S/URSI Int. Symp., RWS, WAMICON, SiRF, iWAT  
- TPC Member: AP-S/URSI Int. Symp., IMS, RWS, WAMICON, SiRF, WiSNET, EuCAP, EuMW, IMBioC"  
- Editor: IEEE TMTT, 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 Lockheed Martin Professorship (2018-2023)  
- UCF Reach for the Stars Award (2016)  
- UCF Research Incentive Award (2011, 2016)  
- UCF Teaching Incentive Program Award: (2010, 2015)  
- UCF CECS Distinguished Researcher Award (2013)  
- UCF CECS CAE Link Faculty Fellow (2010-2012)  
- NSF Faculty Early Career Award (2009)
Zhishan Guo  
Assistant Professor  
Ph.D., Computer Science  
University of North Carolina at Chapel Hill, 2016

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Zhishan.Guo@ucf.edu  
407-823-0124

Research:  
http://www.ece.ucf.edu/~zsguo/  
- Modeling and analysis of real-time systems  
- Machine learning theory and neural networks  
- Secured and energy-aware cyber-physical systems

Ongoing Research Projects
- CRII: NeuroMC – Parallel Online Scheduling of Mixed-Criticality Real-Time Systems via Neural Networks (NSF)  
- CPS: Collaborative Research: Trusted CPS from Untrusted Components (NSF) Development of Rehabilitation Integrated Real-Time Control Ankle Foot Orthosis Algorithm (Korean Gov.)  
- F1/10 Autonomous Racing Robots (NSF-REU & Internally Funded)  
- Scalable Memory and Storage Management via Neural Networks (Internally Funded)

Professional Activities
- Member of IEEE and ACM  
- NSF review panelist  
- TPC chair of Workshop on Mixed Criticality (2019)  
- TPC member of numerous IEEE/ACM conferences including: RTSS, AALSOFT, RTAS, etc.  
- Reviewer of numerous journals including: TNNLS, TVT, TCAD, TETCI, TC, TPDS, TIFS, TKDE, TECS, JSA, IPL, JoSH, etc.

Honors & Awards
- Outstanding Teaching Award, CS Department, UNC-Chapel Hill (2015)

Linwood Jones  
Professor  
Ph.D., Electrical Engineering VA  
Polytechnic Institute & State University, 1971

Contact:  
Ljones@ucf.edu  
wlinwoodjones@gmail.com  
407-823-6603

Research:  
http://www.cecs.ucf.edu/cfrsl/  
- 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 and sea surface salinity  
- Microwave radiative transfer model development  
- Airborne & satellite microwave remote sensor computer simulation

Ongoing Research Projects
- Investigation of Rain-Induced Oceanic Surface Salinity Stratification for SMAP  
- Inter-satellite Radiometric Calibration (XCAL) for GPM Constellation  
- Investigation of Ionospheric Impacts on GPS signals  
- Improved Satellite Active/Passive Ocean Vector Wind Retrievals  
- Observations of Ocean Surface Wind Speed and Rain Rate with the Hurricane Imaging Radiometer

Professional Activities
- Life Fellow, IEEE  
- Microwave Theory and Tech Soc.  
- Member American Geophysical Union (AGU), American Meteorological Society (AMS)  
- Member - Union of Radio Scientists International (URSI), Commission-F

Honors & Awards
- IEEE JSTARS Best Reviewer Award, 2016  
- NASA PMM Science Team Award, 2015  
- Alan Berman Research Pubs Award, US Naval Research Lab, 2004  
- 4 NASA Special Achievement Awards and 12 Group Achievement Award, 1981-2016  
- CNES Space Medal, 1993
Brian Kim
Assistant Professor
Ph.D., Biophysics
Cornell University, 2013

Contact:
Brian.Kim@ucf.edu
407-823-1034

Research: http://ece.ucf.edu/~bkim/
- Low-noise Analog Circuit Design
- Monolithic CMOS Biosensors and Actuators
- Brain-machine interface
- Single-cell Electrophysiology
- Accessible Medical Diagnostics Test

Ongoing Research Projects
- Monolithic Integration of 1000-ch Neural Interface System on a Single Silicon Die, sponsored by NS
- Multiplexed rRT-PCR detection of Zika, dengue, and chikungunya directly from whole blood using an innovative, sponsored by NIH/NIAID

Professional Activities
- Biophysical Society Member
- Biomedical Engineering Society Member
- IEEE Member
- Served as NSF panelist in 2017 and 2018
- Technical Referee for:
  o IEEE Transactions on Biomedical Engineering
  o IEEE Transactions on Biomedical Circuits and Systems
  o IEEE Transactions on Instrumentations and Measurements
  o IEEE Circuits and Systems Magazine
  o Analytical Chemistry
  o PLOS ONE
  o Microelectronic Engineering
  o Scientific Report
  o Lab on a Chip

Qifeng Li
Assistant Professor
Ph.D., Electrical Engineering Arizona State University, 2016

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617-253-1000

Research: http://www.mit.edu/~qifengli/
- Convex/global Optimization
- Nonlinear Systems
- Power and Energy Systems
  o Demand Side Management
  o Networked Microgrids
  o Distributed Energy Storage
  o Grid Integration of Renewable Energy
  o Distribution System Optimization
- Energy-Water-Food Nexus

Ongoing Research Projects
- Stability, security and emergency control for reconfigurable networked microgrids, U.S. National Science Foundation, Principal Investigator
- Coordination of Transmission, Distribution and Communication Systems for Prompt Power, U.S. Department of Energy, Principal Investigator
- Intelligent Water-Energy Micro Nexus MIT/MI Cooperative Program, Co-Principal

Professional Activities
- Editor for CSEE Journal on Power and Energy Systems
- Chair of penal session in INFORMS Annual Meeting 2019 for Recent Development in Optimization of Grid-connected Battery Energy Storage Systems
- Member IEEE Battery Energy Storage Work Group
- Professional referee for a number of top-tier journals to include IEEE Transactions on Power Systems, Smart Grid, Sustainable Energy, Control of Network Systems, Industrial Informatics, IEEE Power and Energy Letters, and IEEE Control System Letters

Honors & Awards
- China National Scholarship 2012
Mingjie Lin
Associate Professor
Ph.D., Electrical Engineering
Stanford University, 2008

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407-882-2298

Research: http://www.eecs.ucf.edu/~mingjie/
- FPGA High-Level Synthesis in memory optimization
- Hardware acceleration in machine learning and AI.
- Hardware security within the domain of FPGA and CPU micro-architecture

Ongoing Research Projects
- CAREER: iMPACT: Metaphysical and Probabilistic-Based Computing Transformation with Emerging Spin-Transfer Torque Device Technology
- Novel Hardware-Support for Ensuring Confidentiality and Integrity on Emerging Non-Volatile Memories
- SHF:Small: Graph-X: Exploiting Hidden Parallelism of Irregular and Non-Stencil Computation in High-Level Synthesis

Honors & Awards
- UCF Rising Star 2017
- UCF Teaching Incentive Program Award 2017
- NSF CAREER AWARD 2016

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

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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 such as
  - Speaker Recognition
  - Image Classification/recognition
  - Interference Cancellation in Wireless Communications
  - Multi-Signal Fusion

Ongoing Research Projects
- DSP Application for Facial Recognition, Human Action Recognition, Biometric Signals Machine Learning, etc.

Professional Activities
- Has more than 350 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 (Samples)
- Fellow, IEEE, 1987
- UCF, CECS Teaching Incentive Award (TIP), April, 2016, April 2011, April 2006, April 2000, 1994
- UCF, CECS Graduate Teaching Award, 2006
- UCF Undergraduate Teaching Award
- UCF, CECS Research Incentive Award, 2005, 1993
- Best Paper Awards from International Conferences, 2015, 2014
Junjian Qi
Assistant Professor
Ph.D., Electrical Engineering
Tsinghua University, 2013

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Junjian.Qi@ucf.edu
407-823-1305

Research: http://www.ece.ucf.edu/~jqi/
- Cascading Blackout and Grid Resilience
- Power System Stability and Control
- Power Grid Cybersecurity
- Distributed Energy Resources
-Synchrophasor

Ongoing Research Projects
- Enhancing Power System Resilience Advanced Analytics (Argonne National Laboratory)
- Enhancing Cyber-Physical System for Large-Scale Integration of Distributed Energy Resources by Big Data and Deep Learning, Cyber Florida Collaborative Seed Award Program, 2019.
- Developing Cybersecurity Laboratory and Curriculum for Critical Energy Infrastructure, Cyber Florida capacity Building Program, 2018.

Professional Activities
- Secretary, IEEE Task Force “Voltage Control for Smart Grids”
- TPC Member, 2017 IEEE International Conference on Smart Grid Communications (SmartGridComm)
- TPC Member, Fifth International Symposium on Control, Automation, Industrial Informatics and Smart Grid (ICAIS’17)
- Associate Editor, IEEE Access
- Secretary, IEEE Work Group “Energy Internet”
- TPC Member, 2020 3rd International Joint Conference on Clean Energy and Smart Grid (CCESG)

Honors & Awards
- Argonne Outstanding Postdoctoral Performance Award (2016)

Zhihua Qu
Professor and Chair of ECE
Lead of UCF RISES Cluster
Ph.D., Electrical Engineering
Georgia Institute of Technology, 1990

Contact:
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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 and Cooperative Systems
- Medical Robotics

Ongoing Research Projects
- FEEDER Center (established under DoE grants)
- Unifying Optimization and Control: Data-Driven Adaptive Learning and Real-Time Decision Making (FHTCC)
- Data Analytics for Autonomous Building and Smart Infrastructure (Siemens Building Technology)
- Data Analytics: Electric Grid Data Integration and Support (Siemens Digital Grid)
- An Intelligent Medical Robotic Device (AVRA Medical Robotics)

Professional Activities
- President, ECEDHA
- Board of Director and Secretary, SCEEE
- Committee of Visitors, ECCS, NSF
- Canvassing Committee, ECCS, NSF
- Associate Editor, Automatica
- Associate Editor and Editorial Board, IEEE ACCESS
- IEEE CSS liaison to IEEE Smart Grid
- Advisory Board, International Journal of Robotics and Automation

Honors & Awards
- Fellow, IEEE
- Fellow, AAAS
- SAIC Endowed Professorship
- Pegasus Professor
- Lockheed Martin Corporate Award
- Technology Transfer Award, NASA
- ECEDHA service award
- IEEE Distinguished Lecturer
Nazanin Rahnavard  
Associate Professor  
Ph.D., Electrical and Computer Engineering  
Georgia Institute of Technology, 2007  

Contact:  
Nazanin.Rahnavard@ucf.edu  
407-823-1762  

Research:  
http://cwnlab.eecs.ucf.edu/  
- Compressive Sensing: New Designs and Applications  
- Radio Frequency Cartography  
- Cooperative Spectrum Sensing and Access in Cognitive Radio Networks  
- Deep learning theory and applications  
- High-dimensional data analysis  
- Wireless Ad-hoc and Sensor Networks  

Ongoing Research Projects  
- A Tensor-based Framework for Reliable Radio Cartography (NSF)  
- Cross-layer Adaptive Rate/Resolution Design for Energy-Aware Acquisition of Spectrally Sparse Signals Leveraging Spin-based Devices (NSF)  
- STEM Transfer Students Opportunity for Nurtured Growth (STRONG) (NSF)  
- Deep Intermodal Video Analytics (IARPA)  

Professional Activities  
- Frequent NSF Panel Reviewer  
- Associate Editor for Elsevier Computer Networks Journal  
- Member of Technical Program Committee for numerous conferences such as Communications (Globecom), Military Communications (MILCOM), IEEE  
- IEEE Senior Member  

Honors & Awards  
- National Science Foundation CAREER award (2011)  
- Outstanding Research Award, Center for Signal and Image Processing, Georgia Institute of Technology, 2007  
- UCF College of Engineering and Computer Science CAMP-YES Mentor of the Year Award, 2016.

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

Contact:  
Simaan@ucf.edu  
407-882-2220  

Research:  
http://www.eecs.ucf.edu/simaan  
- 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  
- Member, AIMBE Fellow Evaluation Committee  
- Member, IEEE Systems Journal Editorial Advisory Board  
- Member, AAAS Engineering Section Steering Committee  
- Member, AAAS Committee on Fellows  
- 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  
Ph.D., Electrical and Computer Engineering  
Iowa State University, 2011  

Contact:  
Sun@ucf.edu  
407-823-2344  

Research: http://www.eecs.ucf.edu/~weisun  
- Power System Restoration and Self-healing Smart Grid  
- Resilient and Secure Critical Infrastructure  
- Cyber-Physical Systems  
- Renewable Energy and Microgrid  

Ongoing Research Projects  
- Developing Cybersecurity Laboratory and Curriculum for Critical Energy Infrastructure (Florida Center for Cybersecurity)  
- Cyber-Physical Attacks Recovery in Smart Grids: Security, Resiliency, and Interdependency (Florida Center for Cybersecurity)  

Professional Activities  
- Director of Siemens Digital Grid Lab  
- Associate Editor of Energy Systems  
- Co-chair of WG on Power System Restoration in IEEE PES  
- Task Lead of Restoration from Cascading Failures in IEEE PES CFWG  
- Panel Chair in IEEE conferences, including Innovative Smart Grid Technologies, PES General Meeting  
- Panelist and reviewers for NSF and DoE  

Honors & Awards  
- Microsoft Software Engineering Innovation Foundation Award (2014)  
- Best Paper Award, 2019 IEEE PES ISGT Asia  
- Mentor of the Year, UCF Graduate Student Association, 2019

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

Contact:  
Kalpathy.Sundaram@ucf.edu  
407-823-5326  

Research: http://people.eecs.ucf.edu/sundaram  
- Thin Film Microelectronic Materials and Processing  
- Optoelectronic Thin Film Materials  
- Electrostatic Discharge (ESD) and Protection Design and Simulation  

Ongoing Research Projects  
- Preparation of Boron Carbon Nitride (BCN) films by RF Sputtering (Intel Corporation)  
- Electrostatic Discharge (ESD) and Protection Design and Simulation (ADI)  

Professional Activities  
- IEEE Senior Member  
- Member of Electrochemical Society  
- IEEE Orlando Section, Education chair, Historian  

Honors & Awards  
- Thomas Callinan Award, Dielectric Science & Technology Division of ECS  
- 2014 IEEE Student Branch Counselor Award  
- Fellow, Electrochemical Society (ECS 2013)  
- 2008 Outstanding Engineer, IEEE Region-3  
- 2008 UCF Teaching Incentive Program (TIP) Award  
- 2011 Outstanding Service Award, IEEE Region-3
Azadeh Vosoughi  
Associate Professor  
Ph.D., 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  
- Advanced Ion Channel Models for Neurological Signal Processing Theory and Application to Brain-Computer Interfacing (NSF)  
- 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)  

Professional Activities  
- IEEE Senior Member  
- Frequent NSF review panelist  
- TPC Member of numerous IEEE conferences including: ICC, SPAWC, GLOBECOM, DCOSS, PIMRC, VTC, WCNC, MILCOM, WCSP  

Honors & Awards  
- UCF CECS CAE Link Professorship (2018-2013)  
- 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)  

Parveen Wahid  
Professor, Associate Chair of ECE and Undergraduate Program  
Coordinator of EE and CpE  
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
Jun Wang  
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  
- Big Data and Big Learning Computer Systems  
- Massive Storage and File Technology  
- Data Intensive Computing  

Ongoing Research Projects  
- National Science Foundation: Revamping I/O Architectures Using Machine Learning Techniques on Big Compute Machines  
- National Science Foundation: Developing a Highly Efficient and Accurate Approximation System for Warehouse-Scale Computers with the Sub-dataset Distribution Aware Approach  
- National Science Foundation: Multi-criteria optimization control for temperature constrained energy efficient data center using fuzzy decision making theory  

Professional Activities  
- Associate editor for the IEEE Transactions on Parallel and Distributed Systems 2012 - 2014; 2016-present  
- Associate editor for the IEEE Transactions on Cloud Computing 2016-present  
- Program co-Chair for 2018 the 20th IEEE Conference on High Performance Computing and Communications  
- Local arrangement chair for the IEEE/ACM IPDPS’17  

Honors & Awards  
- University of Central Florida Research Incentive Award 2017  
- UCF Reach for the Stars 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  
- 2019 Editorial Excellence and Eminence Award by IEEE Transactions on Cloud Computing Editor Board  

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.cecs.ucf.edu/lei/
- Biologically 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

Fan Yao
Assistant Professor
Ph.D., Computer Engineering
The George Washington University, 2018

Contact:
Fan.Yao@ucf.edu
407-823-0147

Research: http://ece.ucf.edu/~fanyao/
- Computer Architecture
- Secure Processor Architecture
- System Security
- Energy Efficiency Computing
- Cloud Computing

Ongoing Research Projects
- Detection and defenses for microarchitecture information leakage attacks
- Accelerating symbolic execution for automated vulnerability discovery using graph theory
- Energy efficiency optimization for latency-critical workloads in data centers

Professional Activities
- Conference Program Committee: HPCA 2020, ICCD 2019, MICRO SRC 2018
- Organizing Committee: HPCA 2019, IISWC 2019

Honors & Awards
- NSF GW I-Corps Site Grant Award, 2018
- The Norris & Betty Hekimian Engineering Endowment Fellowship, GWU, 2017

Ongoing Funded Research Projects
- Architecting Secure-by-Design Memristor-Based Memories (NSF)
Jiann S. Yuan
Professor
Ph.D. Electrical Engineering
University of Florida, 1988

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

Research: https://sites.google.com/site/yuanjs168/
- Semiconductor devices and ICs
- Analog, mixed-signal, and RF circuits
- Ultra-low power spiking neural network using emerging RRAMs for
  neurons and synapses
- GaN power devices and reliability analysis
- Deep Learning for 3DICs
- Using artificial Intelligence for new drug discovery
- Using generative adversarial examples for cyber defense

Ongoing Research Projects
- Industry/University Cooperative Research Center: Multi-functional
  Integrated System Technology (MIST), NSF, Principal Investigator
- Industry support (Intersil and BRIDG) for MIST projects
- REU Supplement, NSF, Principal Investigator
- Automated and Evolving Defense against Adversarial Examples using
  Generative Adversarial Networks, Cyber Florida, Principal Investigator

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

Honors & Awards
- UCF Pegasus Professor Award, 2016
- RIA Award, University of Central Florida, 2018 and 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,

Murat Yuksel
Associate Professor
Ph.D. Computer Science
Rensselaer Polytechnic Institute, 2002

Contact:
Murat.Yuksel@ucf.edu
407-823-4181

Research: http://www.ece.ucf.edu/~yuksem
- Networked, wireless and computer systems
- Optical wireless
- Spectrum sharing
- Cloud networking
- Network economics
- Network architectures

Professional Activities
- Editor; IEEE Networking Letters; 2018-Present
- Editor; Computer Networks, Elsevier; 2014-Present
- NSF panelist
- Steering Committee Member; IEEE LANMAN Symposium (2015-
  Present) ACM CoNEXT CAN Workshop (2017-2018)
- Chair; ACM CoNEXT CAN 2016, IEEE LANMAN 2014
- TPC Chair, IEEE LANMAN 2013
- TPC Track Chair;IEEE MILCOM 2019, IEEE/ACM NAS 2012
- TPC Member; IEEE ICNP, IEEE INFOCOM, ACM VLCS, IEEE
  ICCCN, IEEE GLOBECOM, IEEE ICC

Honors & Awards
- Prize Paper Award, Best Paper Award; IEEE Power & Energy
  Society (PES) General Meeting, 2019
- Distinguished TPC Member, IEEE INFOCOM 2019
- Best Demo Award; IEEE LANMAN 2018
- Faculty Excellence Award; College of Engineering, UNR, 2016
- Senior Member; ACM, 2015
- Best CSE Researcher Award; Computer Science and
  Engineering, UNR, 2014
- Senior Scholar Award; College of Engineering, UNR, May 2014
- Senior Member; IEEE, 2011
- Best Paper Award; IEEE LANMAN 2008
- Best Paper Nominee; IEEE ISCC 2003
- Achievement Award; Sun Labs, 2001

Ongoing Funded Research Projects
- Multi-Element Mobile Visible Light Communication for Smart
  Cities (by NSF)
- Stable and Efficient Peering Through Internet Exchange Points
  (IXPs) (by NSF)
- Modeling and Development of Resilient Communication for First
  Responders in Disaster Management (by NIST)
- US Ignite: Rapid and Resilient Critical Data Sourcing for Public
  Safety and Emergency Response (by NSF)
Qun Zhou  
Assistant Professor  
Ph.D. Electrical Engineering  
Iowa State University, 2011

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407-823-3284

Research:  
http://www.eecs.ucf.edu/~qzhou/  
- Smart Grid and Smart Buildings  
- Smart Infrastructure Data Analytics  
- Demand Response and Customer Engagement  
- Solar Energy Forecasting and System Integration

Ongoing Research Projects  
- Autonomous Buildings and the Digital Grid  
  (Siemens)  
- Leveraging Data to Secure Smart Infrastructures  
  under Cyber-Physical Attacks (CyberFlorida)  
- GOALI: Highly Integrated Grid-Tied Multi-Port Power  
  Module for PV and Storage (NSF)  
- REU Site: Research Experiences for Undergraduates Site  
  on Internet of Things (IoT)

Professional Activities  
- Director, Smart Infrastructure Data Analytics Lab  
- Associate Editor, IEEE Transactions on Smart Grid  
- Technical Committee Program Chair, IEEE Power and Energy  
  Society (PES) Smart Building, Load and Customer Systems (SBLC)  
  Committee  
- Committee Member, IEEE PES Big Data Analytics (BDA)  
  Subcommittee  
- Committee Member, IEEE PES Power System Economics  
  Subcommittee  
- Technical Reviewer for IEEE Transactions on Power Systems, IEEE  
  Transactions on Sustainable Energy, etc
Electrical and Computer Engineering

Facts & Figures

EE and CpE Programs
- BSEE, BSCpE
- MSEE, MSCpE
- PhDEE, PhDcpE

US News and World Report (2019 Rankings)
- Electrical Engineering 53 (out of 148 ranked programs)
- Computer Engineering 52 (out of 105 ranked programs)

Faculty & Staff
- 35 Tenured/Tenure-Track Faculty (13 Professors, 10 Associate Professors, 12 Assistant Professors)
- 6 Lecturers/Instructors (Including 1 Senior Lecturer and 1 Associate Lecturer)
- 10 Postdoctoral Researchers and Research Faculty Members
- 27 Joint Faculty Members
- 4 Emeritus Professors
- 2 Staff Engineers
- 7 Office Staff Members

External Recognitions
- 1 Member of National Academy of Engineering
- 15 Fellows of IEEE
- 5 Fellows of AAAS
- 1 Fellow of ASEE
- 1 Fellow of AIMBE
- 1 Fellow of ECS
- 7 NSF Career Awardees
- 1 DoE Young Investigator Awardees
- 5 Fellows of National Academy of Inventors

Degrees Conferred (AY 2018-2019)
- 14 PhD EE and 9 PhD CpE
- 26 MSc EE and 20 MSc CpE
- 131 BSc EE and 113 BSc CpE

Student Enrollment (FALL 2019)
- 116 Electrical Engineering PhD students
- 52 Computer Engineering PhD students
- 33 Electrical Engineering MSc students
- 31 Computer Engineering MSc students
- 540 Electrical Engineering undergraduate students
- 245 Electrical Engineering pending students
- 589 Computer Engineering undergraduate students
- 310 Computer Engineering pending students