



College of Engineering and Computer Science

Fall 2018

Meet Our New Research Faculty

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING



M. Mahdi Assefzadeh

Assistant Professor

Ph.D. from Rice University

Research: Terahertz integrated circuits and systems with on-chip antennas for molecular sensing; hyper-spectral imaging; high-speed communication



Kenle Chen

Assistant Professor

Ph.D. from Purdue University

Research: Radio-frequency and millimeter-wave integrated circuits; reconfigurable high-frequency circuits; future-generation communication systems; interdisciplinary applications of radio technology



Chinwendu Enyioha

Assistant Professor

Ph.D. from University of Pennsylvania

Research: Design, analysis, distributed optimization and limited-communication control of large-scale networked systems



Zhishan Guo

Assistant Professor

Ph.D. from University of North Carolina at Chapel Hill

Research: Real-time systems; neural networks and machine learning, and their applications in cyber-physical systems



Fan Yao

Assistant Professor

Ph.D. from George Washington University

Research: Computer architecture; security; energy-efficient computing; automated vulnerability discovery; cloud computing

DEPARTMENT OF CIVIL, ENVIRONMENTAL AND CONSTRUCTION ENGINEERING



Shaurya Agarwal

Assistant Professor

Ph.D. from University of Nevada Las Vegas

Research: Cyber-physical systems; smart cities; Internet of Things; urban informatics; intelligent transportation systems; dynamics and control



Zhaomiao "Walter" Guo

Assistant Professor

Ph.D. from University of California Davis

Research: Resilient transportation systems; transportation and energy nexus; cyber-physical systems; multi-modal transportation



Fudong Liu

Assistant Professor

Energy Conversion and Propulsion Cluster

Ph.D. from Chinese Academy of Sciences

Research: Environmental catalysis; emission control; energy conversion; nano-materials synthesis and catalysis



Mohamed Zaki

Assistant Professor

Ph.D. from Concordia University, Montreal

Research: Sustainable mobility; traffic safety; connected vehicles and infrastructures; cyber-physical systems; smart cities; computer vision; formal verification



DEPARTMENT OF COMPUTER SCIENCE



Paul Gazzillo

Assistant Professor

Cyber Security and Privacy Cluster

Ph.D. from New York University

Research: Analysis of configurable systems; side-channel attacks; blockchain smart contracts



Abhijit Mahalanobis

Assistant Professor

Center for Research in Computer Vision

Ph.D. from Carnegie Mellon University

Research: Multi-sensor automatic target recognition; image and video analytics for object and activity recognition; computational imaging



Yan Solihin

Charles N. Millican Chair Professor

Director of Cyber Security and Privacy Cluster

Ph.D. from University of Illinois- Urbana

Research: Cybersecurity and privacy; computer architecture and systems

DEPARTMENT OF INDUSTRIAL ENGINEERING AND MANAGEMENT SYSTEMS



Ben D. Sawyer

Assistant Professor

Ph.D. from University of Central Florida

Research: Human factors engineering; neuro-ergonomics; human-systems integration; design

DEPARTMENT OF MECHANICAL AND AEROSPACE ENGINEERING



Hwan Choi

Assistant Professor

Prosthetic Interfaces Cluster

Ph.D. from University of Washington

Research: Human musculoskeletal modeling and analysis; neuromuscular system; assistive devices; rehabilitation engineering



Michael P. Kinzel

Assistant Professor

Ph.D. from The Pennsylvania State University

Research: Computational fluid dynamics applied to aerodynamics; multiphase flows such as cavitation; bubbly/particle-laden flow; and complex fluid systems



Luigi E. Perotti

Assistant Professor

Ph.D. from California Institute of Technology

Research: Cardiac mechanics and electrophysiology; heart failure; ventricular fibrillation; virus assembly and maturation; bio-inspired deployable shells; biomechanics

DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING



Parag Banerjee

Associate Professor

Energy Conversion and Propulsion Cluster

Ph.D. from University of Maryland

Research: Atomic layer deposition and etching; surface engineering for catalysis; solar energy harvesting

UCF's Faculty Cluster Initiative

UCF is hiring in select fields to advance the university's areas of excellence and global impact. The initiative leverages UCF's existing strengths and fosters the development of strong, interdisciplinary teams focused on solving today's toughest scientific and societal challenges through teaching and research.

- **Cyber Security and Privacy**
- **Disability, Aging and Technology**
- **Energy Conversion and Propulsion**
- **Genomics and Bioinformatics**
- **Learning Sciences**
- **Prosthetic Interfaces**
- **Renewable Energy Systems**
- **Sustainable Coastal Systems**
- **Violence Against Women**

CELEBRATING FIFTY YEARS!



College of Engineering and Computer Science

UNIVERSITY OF CENTRAL FLORIDA