DEPARTMENT OF

INDUSTRIAL & SYSTEMS ENGINEERING

RESEARCH

UF ISE Human Systems Engineering Lab Driving Simulator

The **UF Department of Industrial & Systems Engineering** provides a platform for student creative and critical systems thinking that produces research transforming work and society through engineering science.

#11 **BEST PUBLIC INDUSTRIAL & SYSTEMS ENGINEERING GRADUATE PROGRAM**
2023 U.S. News & World Report

FACULTY

21 FACULTY MEMBERS

15 TENURED/TENURE TRACK FACULTY

5 OPEN POSITIONS WE'RE HIRING FOR

COLLABORATION

UF ISE faculty are currently collaborating with **48** other departments and institutes across campus and beyond including the **College of Design, Construction and Planning, College of Human & Health Performance, College of Education, College of Nursing and UF Health**.

$6.4M **IN CURRENT RESEARCH AWARD FUNDING**

TOP FUNDING AGENCIES

77% NSF

6% DOD

4% DOE

3% NIH

3% U.S. Department of Agriculture

RESEARCH AREAS

Data Analytics - Focus on process monitoring and modeling, adaptive sampling, high dimensional data analysis, integrated simulation and optimization methods

Health Systems - Medical decision-making, personalized medicine, treatment models, quantitative human systems analyses in healthcare

Human Systems - Human motion monitoring, activity classification, biometrics, usability in safety critical systems, human-robot interaction, driver safety, physiological signal processing/analysis

Operations Research - Focus on stochastic and discrete optimization, stochastic modeling and control, data-driven modeling, algorithm design and analysis, and network optimization

Smart Production & Logistics Systems - Supply chain design and operation, process datamining, statistical methods for data reduction, machine learning for process classification and decision making, data-driven stochastic inventory control, inventory and production planning for manufacturing and maintenance systems.

DEPARTMENT OF

INDUSTRIAL & SYSTEMS ENGINEERING

TENURED/TENURE-TRACK FACULTY

ELIF AKCALI, PH.D.

Michael Durham Professor of Creativity, Associate Professor

Inventory and supply chain systems, lean production systems, sustainability and creativity

DAVID KABER, PH.D.

Dean's Leadership Professor

Human performance analysis and modeling for design and engineering complex systems, cognitive workload and situation awareness analysis, human-autonomy collaboration

IRIS RIVERO, PH.D.

Paul and Heidi Brown Preeminent Chair in Industrial and Systems Engineering, Department Chair

Advanced manufacturing, 3D printing, hybrid manufacturing, materials design, biomanufacturing, and nondestructive testing.

LEO HAMED AMINI, PH.D.

Associate Professor

Quantitative finance, financial technology, systemic risk and stochastic systems

ALEKSANDR KAZACHKOV, PH.D.

Assistant Professor

Discrete optimization, computational economics, fair mechanisms design

JORGE SEFAIR, PH.D.

Associate Professor

Discrete, network, and multilevel optimization applied to environmental planning, public policy, and logistics

WAYNE GIANG, PH.D.

Assistant Professor

Design of decision support tools for human and health systems

MINHEE KIM, PH.D.

Assistant Professor

Statistical modeling & predictive analysis of industrial & engineering systems, engineering-informed machine learning, quality engineering

YU YANG, PH.D.

Assistant Professor

Large-scale optimization for supply chain, logistics, and radiation therapy, machine learning to optimize

YONGPEI GUAN, PH.D.

George E. & Rolande G. Willis Endowed Professor

Stochastic and discrete optimization for energy and power systems

HONGCHENG LIU, PH.D.

Associate Professor

Data-driven modeling, optimization and high-dimensional learning in health and transportation systems

XIAOCHEN XIAN, PH.D.

Assistant Professor

Big data analytics, system informatics, data-rich systems modeling, monitoring, and prediction

BOYI HU, PH.D.

Assistant Professor

Human motion analysis for rehabilitation and human-robot interaction

MOSTAFA REISI GAHROOEI, PH.D.

Assistant Professor

Systems modeling based on high-dimensional and heterogeneous data for quality control

XIANG ZHONG, PH.D.

Associate Professor

Stochastic modeling and control in healthcare and service systems

UFISE UF_ISE

WWW.ISE.UFL.EDU