



**INDUSTRIAL AND MANUFACTURING ENGINEERING
DEPARTMENT
FACULTY RESEARCH AREAS**

Faculty	Research Area
<u>Esra Buyuktahtakin</u> , (PhD, University of Florida)	Optimization, invasive species management, bioinformatics, power grid design, production planning, supply chain management, and logistics
<u>Nils Hakansson</u> , (PhD, University of California, Davis)	Musculoskeletal biomechanics, rehabilitation engineering, modeling and simulation of human movement, neuromuscular control, assistive technology design.
<u>Michael Jorgensen</u> , (PhD, Ohio State University)	Work-related low back disorders, musculoskeletal disorder epidemiology, low-back biomechanical modeling, risk and exposure assessment methodology, and occupational safety.
<u>Krishna K. Krishnan</u> , (PhD, Virginia Tech)	Manufacturing systems, facilities planning and material handling, CAD/CAM systems, flexible manufacturing systems, design for manufacturability.
<u>Viswanathan Madhavan</u> , (PhD, Purdue University)	Manufacturing processes, machine tools, FEA, tribology, material properties, and sensors and manufacturing systems.
<u>Anil Mahapatro</u> , (PhD, Polytechnic University)	Design and engineering of bio-devices, Cardiovascular and Orthopedic Biomaterials, Nanotechnology and Drug Delivery
<u>Don E. Malzahn</u> , (PhD, Oklahoma State University)	Decision analysis, project management, human factors and engineering management.
<u>Abu S. M. Masud</u> , PE (PhD, Kansas State University)	Operations research, multi-criteria decision making, decision analysis and support systems, expert systems, and QFD.
<u>Michael Overcash</u> , (PhD, University of Minnesota)	Sustainability improvements for products, corporations, and regional-to-global systems. Life cycle information and corporate sustainability program development.
<u>Janet Twomey</u> , (PhD, University of Pittsburgh)	Intelligent data processing systems (artificial neural networks, knowledge-based engineering, simulation, information systems, and statistics) applied to manufacturing and service systems.
<u>Pingfeng Wang</u> , (PhD, University of Maryland)	Reliability Analysis and Risk Management, Probabilistic Analysis and Design, Maintainability, Prognostics and Health Management
<u>Gamal Weheba</u> (PhD, University of Central Florida)	Quality and reliability engineering, statistical process control, economics of quality, precision measurements, and rapid prototyping.
<u>Lawrence E. Whitman</u> , PE (PhD, The University of Texas at Arlington)	Enterprise modeling and analysis, engineering education, production systems.
<u>M. Bayram Yildirim</u> , (PhD, University of Florida)	Applied optimization, network optimization, supply chain management, scheduling, transportation planning, pricing on congestible networks