

Faculty Spotlight's on....

Yupeng Wei

Yupeng Wei joined SJSU as an Assistant Professor of Industrial and Systems Engineering in 2020. He received the B.S. degree from Beijing Institute of Technology, Beijing, China, in 2014, the M.S. degree from the University of Florida, Gainesville, FL, USA, in 2016, and the Ph.D. degree from the Pennsylvania State University, State College, PA, USA all in Industrial Engineering. He is originally from China. His research interests focus on developing optimization models and deep learning algorithms for large-scale data with complex heterogeneous data structures to extract latent variables or representations for the purpose of quality monitoring of complex systems, early detection of system anomalies, and system degradation prognostics and decision making. Dr. Wei is a member of ASME, INFORMS, IIE, and IEEE.

Starting from Fall 2020, he has served on the research committee in the College of Engineering. He has also helped to determine Davidson Student Scholars' (DSS) rubrics, decide article processing charge (APC) policy, review proposals for the DSS program, and review project proposals of the Small Group Research Projects (SGP).

Currently, Dr. Wei is expanding to participation in an inter-university project collaboration with the University of Central Florida, Pennsylvania State University, and the University of Tennessee on a research project. This project focuses on data analysis and deep learning for industrial engineering applications, which aims at estimating battery health conditions and predicting the remaining useful life of the lithium-ion battery to facilitate the reliable design of battery systems and safety operations, and detecting malware for industrial systems to address security issues in the context of smart manufacturing and Industry 4.0.

Dr. Wei had the interesting experience of joining the Department just as the Covid-19 shelter in place protocols went into effect. He began his SJSU career with a fully on-line approach to all of his class, research, and committee activities. We look forward to his joining us in person next fall.

Faculty Spotlight's on....

Dr. Minnie Patel

Because of Covid 19, the banquet was cancelled. However, we got to write about ourselves and it was published. I received \$1,000 from the college. Since there was no banquet held in 2020 plaques were not given in recognition of awards.

Award for Excellence in Service The Faculty Award for Excellence in Service - Recognizes faculty with exceptional service to students, a department, the college, the university or to the community.

Minnie Patel, Industrial and Systems Engineering



Dr. Niranjani (Minnie) Patel joined SJSU in 2002. She always wanted to be in California near family members. "When I got an opportunity to join SJSU I did not need much time to make a decision," she said. "First, it was like a dream come true. Second, when I interviewed for a faculty position in the ISE department, I felt at home right away mainly due to collegiality and welcoming attitude of my colleagues-to-be, and I saw an opportunity to grow in the environment. Moreover, I loved the SJSU campus, the city of San José, and its friendly people."

Minnie enjoys spending a lot of time in self-development and trying to understand the ultimate reality of this world. "I engage myself in activities that promote this understanding such as attending retreats expounding Indian Philosophical scriptures in quiet places. I coordinate two South San José Philosophical Study Groups to study Vedanta. I regularly do yoga, meditation and lightweight cardio exercises. I like to travel and explore places. I firmly believe that by serving others selflessly, purity of mind can be gained and this will help me understand who I really am and my relation to the world." Minnie is also currently developing her skills and knowledge in the area of data analytics.

Barry ...Sr. Projects

ISE Senior Design Projects

Our senior design projects continue to be a highlight of our students' learning experiences. The COVID pandemic created challenges, and our sponsors came through for us. This past fall semester, student teams completed variety of projects:

- Chick-fil-A, Mobile Meal Delivery
- Code With Us, Teacher Management
- Delta Products, Facility Operations
- El Camino Hospital, Hospital Bed Management
- Morgan Advanced Materials, Trace Thickness
- Spartan Superway, Inventory Management
- TTM, Imaging Throughput
- Western Digital, Semiconductor Manufacturing Throughput

We also kicked off another thirteen student teams for most of these sponsors, returning sponsors Lockheed Martin, Shipwire and the US Department of Labor and new sponsors C&D Semiconductor, Comet USA, MaxDecisions and NVIDIA.

Thank you to all of your sponsors!

If you are potentially interested in sponsoring a project, please contact Prof. Louis Freund at louis.freund@sjsu.edu.

