



The Charles W. Davidson College of Engineering

2024 Faculty Award for Excellence in Teaching

Dr. Ayca Erdogan

Dr. Ayca Erdogan is an Associate Professor and Graduate Program Director of MS ISE and MS Data Analytics Programs at SJSU ISE department. She joined SJSU as an Assistant Professor in 2014. She received her PhD in Operations Research from North Carolina State University, and B.S. in Industrial Engineering from Istanbul Technical University, Turkey. Before joining SJSU ISE, she worked as a postdoctoral research associate at Stanford University Center for Health Systems Research and Analysis, and visiting assistant professor at University of Southern California Viterbi School of Engineering.

Her research interests include optimization and predictive modeling related to design and operations of complex systems under resource limitation. Specific project areas she worked on include healthcare operations with patient and provider scheduling optimization, healthcare facility location optimization, public health policy decision making, supply chain optimization of subscription-based business models, wildfire suppression, and political redistricting. During her postdoctoral work at Stanford, she worked on a collaborative project on building lung cancer progression and screening models which contributed to shape the US Preventative Services Task Force recommendation on lung cancer screening in the US. After joining SJSU,

