Special Fall Colloquium

Multivariate Neural Network Modeling

Dr. John Flaig
Managing Director, Applied Technology

Abstract:

A short history of neural network development and illustrate back propagation. An example will be used to demonstrate the application of ANN to multivariate process modeling and optimization.

Bio: John J. Flaig, Ph.D. is a Fellow of the American Society for Quality (ASQ) and is managing director of Applied Technology, a consulting, training, and publishing company (www.e-AT-USA.com or https://advpst.wordpress.com). He is Chair of the ASQ's Statistics and Reliability group. His industry experience in Silicon Valley spans more than forty years, and he has published over twenty peer reviewed research papers and over seventy Quality Technology related articles in the popular press. Dr. Flaig earned a doctorate in engineering and technology management from California Southern University, a master's degree in mathematics from the University of California, and a bachelor's degree in mathematics and economics from Cal Poly Pomona. In 2012 he was recognized as a Distinguished Alumnus of Cal Poly's College of Science and generously contributes a Cal Poly scholarship for students of mathematics and statistics.

Key Words: Multivariate statistics, quality control, neural networks

Thursday, Nov. 16, 1:05 - 1:50pm in 4-1-314