



Research Areas/Expertise

1. Quality Engineering

- Quality in Intelligent Manufacturing
- Quality Analytics
- Quality by Design

2. Healthcare Systems Engineering

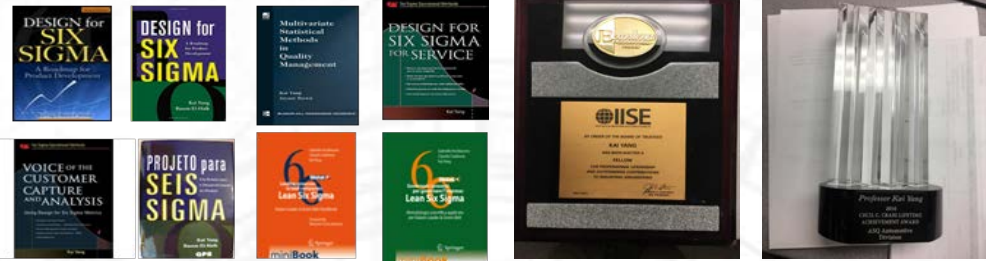
- Health Informatics
- Patient Centered Medical Care/Precision Medicine
- Healthcare Operation and Management

3. Product Development and Production Operations

- Industry 4.0 operations
- Industrial Process Modeling
- Lean Operations

4. Reliability Engineering

- Multistate and Continuous State Reliability
- Nondestructive Evaluation
- Risk Management



Professor Yang is a world well known expert in the area of areas of quality and reliability engineering, healthcare systems Engineering, and product development and production operations. Professor Yang is a Fellow of the Institute of Industrial and Systems Engineers. He is awarded the Cecil C Craig Life Time Achievement Award by the American Society of Quality . Professor Yang is the author of 8 books and numerous number of research papers and a Department Editor of IISE Transactions in Healthcare System Engineering. Professor Yang has been awarded numerous sponsored research projects in all his research areas from both US federal government sources and industry. Since 2007, Dr. Yang has successfully leveraged his statistical and quality engineering expertise in healthcare systems engineering and was one of the founding proposal writers of VA Center of Applied Systems Engineering (VA CASE), which is the largest US healthcare system engineering group. Recently, he also developed his pioneer research thrust in Quality Engineering in Industry 4.0.