Quality Engineering and Healthcare

Quality/Six Sigma/Lean
- Reduce risk through pattern recognition for condition monitoring and fault prediction
- Optimize inspection sampling through OR principles

Healthcare Systems Engineering
- Improve access to care and quality care through simulation modeling and risk assessment
- Increase knowledge sharing through gamification and knowledge management systems

Engineering Education
- Employ emerging interactive teaching practices to inspire motivation, self-directed learning, and critical thinking skills
- Apply quality principles and project-based learning to enhance education

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Funding
- Veterans Health Administration, US Army, John Deere, Department of Defense, Boeing, Wal-Mart

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Keywords
- #Quality, #PatternRecognition, #Healthcare, #SixSigma, #Lean, #QualityHealthcare, #AccessstoCare

Recognitions
- Fellow: ASQ, ASEM, and IISE
- International Academy for Quality
- ASQ Feigenbaum Medalist and Crosby Medalist
- Editor, Quality Approaches in Education
- IISE Lean Teaching Award

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Reduce risk and improve engineering systems through pattern recognition and quality engineering