C.H. GOH, PH.D.

CURRENT POSITION:

Assistant Professor, College of Engineering; Department of Mechanical Engineering

BIOGRAPHICAL SKETCH

Dr. Goh is an assistant professor in the Department of Mechanical Engineering at the University of Texas at Tyler (UT Tyler). Prior to joining UT Tyler, he worked as a senior research associate in the Systems Realization Laboratory at the University of Oklahoma (OU) from 2012 to 2015. He worked for the Korean government after he received his Ph.D. degree at Georgia Institute of Technology in 2002. Dr. Goh has diverse professional experiences, gained throughout 10+ years of industry and academic endeavors. He has published over 30 research papers in international journals and conference proceedings and is the first author of a majority of his refereed published journal papers. His Ph.D. dissertation was the first extension of crystal plasticity finite element method to a fretting fatigue. He highlighted microstructure heterogeneity and plastic ratchetting and provided original insight about the role of friction and wear mechanism in fretting.

Dr. Goh is a member of ASME, ASEE, TMS, and the board of directors in the materials and fracture group in the Korean Society of Mechanical Engineers. Dr. Goh's primary research interests are in virtual design and manufacturing innovation. He is currently committed to innovating at the intersection of design, manufacturing, and materials science and engineering. His teaching interests include design, optimization, CAD/CAM, and manufacturing. He is currently teaching dynamics of machinery, system dynamics and modeling, and design related subjects including mechanical design, and design methodology at UT Tyler.

RESEARCH INTERESTS

Virtual Design and Manufacturing Innovation; Mechanical Design and Optimization; Finite Element Analysis; Microstructure-Sensitive Modeling and Simulation; Crystal Plasticity Finite Element Method; Fatigue and Fracture Analysis; Materials Science and Engineering; Biomaterials and Biomechanics

CONTACT INFORMATION

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