

Introduction to the speaker

Professor Panos Y. Papalambros

Professor Panos Y Papalambros is the Donald C. Graham Professor of Engineering and Chair of the Integrative Systems + Design Division at the University of Michigan. He is also a Professor of Mechanical Engineering, Professor of Architecture, and Professor of Art and Design. He holds a diploma in mechanical and electrical engineering from the National Technical University of Athens and M.S. and PhD degrees in mechanical engineering from Stanford University. He is co-author of the textbook *Principles of Optimal Design: Modeling and Computation* (1988, 2000). His research and teaching interests include design science, design optimization, and product and systems design. He was the founding director of the Design Science Doctoral Program at the University of Michigan.

Professor Ming Xinguo

Ph.D, from Shanghai Jiao Tong University in 1995

Professional Experience

1998-2002 Research Fellow, Manufacturing Information Technology,
Singapore Institute of Manufacturing Technology

2002-2005 Research Scientist, Product Design and Development Group,
Singapore Institute of Manufacturing Technology

2005- Professor, CIM Institute, School of Mechanical Engineering,
Shanghai Jiao Tong University

Research Interests: Product Innovation Engineering, Lean enterprise management, Value Chain Management, Industrial Informatics

Professor Yiming Rong

Yiming Rong is internationally known for his contributions in the areas of computer-aided design and manufacturing and computer-aided fixture design. His research on fixturing and restraining parts in the machining operation—which has been funded by such well-known manufacturing companies as Caterpillar, Ford, and GM, and such federal agencies as the National Science Foundation and the U.S. Department of Energy—has contributed significantly to the nation's manufacturing competitiveness. He has published and presented his research results extensively, and his book, *Computer-Aided Fixture Design*, is considered a standard reference in the field. Rong, who joined the WPI faculty in 1998, holds a BS in mechanical engineering from Harbin University of Science and Technology and an MS in mechanical engineering from Tsinghua University, both in China. He also earned an MS in industrial engineering from the University of Wisconsin-Madison and a PhD in mechanical engineering from the University of Kentucky. He was elected a fellow of the American Society of Mechanical Engineers in 2004. Currently, he is professor of Tsinghua University.

Dr. Du Jianbin

Research Interests

Structural and Multidisciplinary Optimization, Topology Optimization of Structural Vibration and Acoustics, Fluid-Structure Interaction, Computational Mechanics.

Education

- B.S. Engineering Mechanics, Huazhong University of Science and Technology, 1993
- M.S. Computational Mechanics, Huazhong University of Science and Technology, 1996
- Ph.D. Solid Mechanics, Tsinghua University of China, 1999

Employment

- Postdoc, University of Michigan (Ann Arbor, USA), 1999-2001
- Postdoc, Aalborg University of Denmark, 2002
- Research Assistant Professor, Aalborg University of Denmark, 2003-2005
- Assistant Professor, Tsinghua University, 2006-2007
- Associate Professor, Tsinghua University, 2007-date

Dr. Pingke Li

Pingke Li received the B.S. degree in control science from Fudan University in 2002, the M.S. degree in mathematics from Tsinghua University in 2005, and the Ph.D. degree in industrial engineering from North Carolina State University in 2009. He joined the faculty of industrial engineering at Tsinghua University in May 2010 as an assistant professor.

His research interests include discrete optimization, discrete event simulation, computational intelligence, and fuzzy logic.

Dr. Jingshan Zhao

Dr. Jingshan Zhao majors in mechanism and machine theory. His research interest covers mechanism analysis and design, kinematics and dynamics of spatial mechanisms, industry robot and its applications, vehicle engineering. He has finished or is now responsible for 2 projects from the natural science foundation of China, 1 project from the natural science foundation of Beijing, 1 project from the ministry of science and technology of China and 3 projects from the ministry of education of China and some industry projects. He has published more than 40 journal papers and two books.

Dr. Hou Yuemin

Dr. HOU Yuemin obtained her Ph.D from Tsinghua University in June of 2005. She has published more than 50 research papers as first and

corresponding author, and delivered presentations at many international conferences held in China, France, Germany, Italy, USA, and Japan. She has completed research projects covering the bio-inspired design and algorithm for multidisciplinary design, dynamics analysis of mechanical systems and mechanical elements, neural network, the design and optimization of mechanical systems. Her Research interests currently focus on: 1. Biologically-inspired design theory and computing. 2. Dynamical analysis and optimal design of systems. 3. Multidisciplinary representation and modeling for design, analysis and optimization of systems. 4. Multidisciplinary modeling and design of chamber system of IC equipments for film deposition.