

Short Bio

Dr. HOU Yuemin obtained her M.S. from Northwestern Polytechnical University in Xi'an and obtained her Ph. D from Tsinghua University in Beijing in 2005. She has works in the Design Institute of Mechanical Engineering Department at Tsinghua University (since 1996) as senior researcher and in the Mechatronic Engineering School of Beijing Information Science and Technology University (since 2005) as associate professor.

Visiting position: during June-July 2008 and October-December 2012, she visited George Mason University and worked as visiting researcher. During February-April, July-August 2009, and July-September 2011, she visited Aerospace faculty of TU Delft and worked as visiting researcher.

Current research interests include: biology inspired design theory and algorithms, gene transcription and translation in design, 4D design, neural networks, dynamics, design teaching for creativity, design and modelling of public spaces on campuses.

Publications: her publications as first author include two books and more than 60 papers on design, dynamics and design education. *Academic activities:* She acted as manager, session chair, co-chair, academic committee, advisory committee of international conferences. She organized ADCP (Design Concepts and Practices) international workshops since 2011.

Teaching: she has been teaching courses on engineering design and analysis, and advanced design theory and methodology.

Awards: she recently got the first class “National Science and Technology Progress Award” in 2013, sponsored by the State Council of the People’s Republic of China, and Excellent Poetry translation award by “National Center for the performing arts” of China in 2013.

Membership: she is member of Design Society and member of ASME.

Recent projects:

2012-2015, Research on the rapid design of processing chambers for thin film deposition based on biology inspired design mechanisms”, sponsored by National Natural Science Funding Committee of China.

2015-2016: Design education paradigm for engineering innovation and creativity, sponsored by Beijing Information Science and Technology.

2011-2014, Multidisciplinary design, processing simulation and optimization of IC Equipment, large grant supported by the Science and Technology Ministry of China. Participant. Her work include methods and tools for design platform.

2012-2013, Research on the algorithms mapping behaviors and structures for the design of individualizing service mechanical—electronic products, sponsored by Science Research Program of Education Committee Beijing Municipality.