

ADCP 2014 Summer Workshop

## Advanced Design Concepts and Practice

Meeting Room 4304, Precision Instrument Building, Tsinghua University, Beijing, China

8.30am-7.00pm, 24 June 2014

<http://adcp2012.com>

### Keynote Speaker

Prof. Tetsuo Tomiyama  
Cranfield University, UK

### Sponsors

Oversea Collaborative Innovation Team  
Project of Tsinghua University  
清华大学重点学科高水平国际合作创新  
团队项目  
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China



### Organizer

Design Institute  
Mechanical Engineering Department  
Tsinghua University

### Chairs

Prof. Ji Linhong      Prof. Michel van Tooren  
Tsinghua University      Univ. of South Carolina

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### Program

Tuesday June 24h, 2014      8.30am-7.00pm		
Time	Topics	Speakers
8.30-8.45am	Welcome and Introduction <b>Session 1: Cyber Physical Systems</b>	Chair Prof. Ji Linhong Chair Prof. Michel van Tooren
8.45-10.15am	Functional Allocation Theory – Systems Architecting Method for Mechatronics Systems	<b>Keynote speaker</b> Prof. Tetsuo Tomiyama Cranfield University, UK
10.15-10.30am	Coffee Break	
10.30-11.15am	Lifecycle modeling, analysis and management of cyber-physical products	Prof. Dr. Yongsheng Ma University of Alberta
11.15-12.00am	Global Sustainability and Green Design Methods	Professor Shana S. Smith National Taiwan Universtiy
12.00-2.00	Lunch	
	<b>Session 2: Computational Synthesis</b>	Chair: Prof. Tetsuo Tomiyama Prof. Michel van Tooren
1.30-2.30pm	Early and accurate weight estimation using MDO and KBE methods	
2.30-2.45pm	Coffee break	
2.45-3.30pm	Multi-disciplinary modeling, design and simulation of complex mechatronic systems based on SysML	Prof. Yusheng Liu Zhejiang University
3.30-4.15pm	A New Model of Conceptual Designing Based on the Scientific Ontology and the Intentionality Theory	Dr. Yong Chen Shanghai Jiao Tong University
4.15 – 4.30pm	Coffee break	
4.30-5.00pm	Mechanism Design cases of Vehicles	Dr. Zhao Jingshan, Tsinghua University
5.00-5.30pm	Induction and gene transcription and translation in design <b>Session 3: Innovative Design Projects</b>	Dr. Hou Yuemin Chair: Prof. Ji Linhong
5.30-5.50pm	Introduction to Capstone Design Projects	Prof. Dr. Yongsheng Ma University of Alberta
5.50-6.00pm	Discussion <b>Session 4: International Projects</b>	Chair Prof. Michel van Tooren Prof. Ji Linhong
6.00-7.00pm	Discussion of EU projects	All participants
7.00pm	Adjourn	