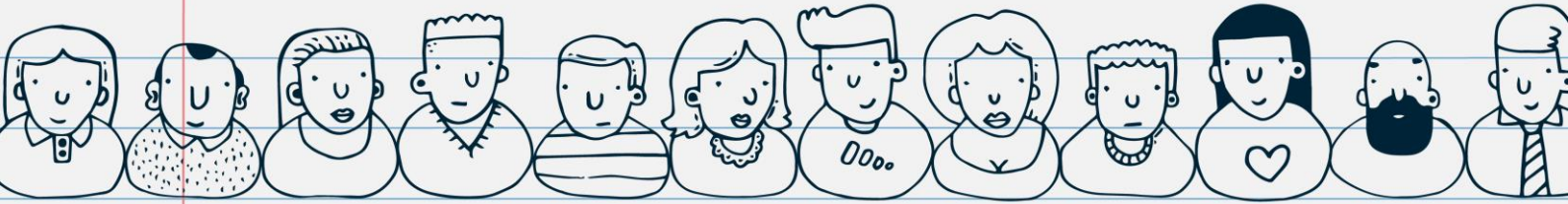




CALL FOR PARTICIPATION



2017

*The 8th International Conference on Systematic Innovation (ICSI) &
The 7th Global Competition on Systematic Innovation (GCSI)*

 July 12-14, 2017, Tsinghua University, Beijing, China

 Co-organizers:
International Society of Innovation Methods (I-SIM)
The Society of Systematic Innovation (SSI)
iCenter, Tsinghua University (THU) (Local Host)
The Chinese Ergonomics Society (CES)
TIMTC, Hebei University of Technology
Chinese Society of TRIZ
Maker Education Base Alliance

 Agenda

 <http://www.i-sim.org/icsi2017/>

 Register Online



The 8th International Conference on Systematic Innovation (ICSI) & the 7th Global Competition/Exhibition on Systematic Innovation will publicize theoretical and technological advances in Systematic Innovation (SI), which include product and service innovation, and computer-aided SI tools/techniques. The conference will contain plenary speeches/tutorials by world-renowned SI researchers/practitioners and parallel technical sessions. The venue of the conference will be Tsinghua University, Beijing, China. Beijing is the capital and political, cultural, and educational center of China, and home to the headquarters for most of China's largest companies. ICSI has most relevant and high-quality papers in SI related fields. You will find the events very rewarding.

SPECIAL FEATURES

A. Free pre-conference scenic tours for international registrants.

The Conference offers a **FREE one-day tour of the Mutianyu Great Wall and Summer Palace**, both rated as **first-class historical and scenic sites of China**, to the first 40 international participants on July 11. Local participants or family members can pay minimum cost to join the tour if seats are still available. Optional post-conference tours paid by participants are also available. <http://www.i-sim.org/icsi2017/Tours.html>

B. Networking with world-class innovation experts

World renowned experts will be delivering the keynotes and tutorials as summarized below.

Many SI experts and TRIZ masters will be attending the conference and presenting. **This will be an excellent opportunity for you to network with many world-class SI experts.**

C. Potential publication in IJoSI journals

Authors of selected papers of ICSI/GCSI will be invited to submit an extended version of full paper for review and possible publication in the **International Journal of Systematic Innovation**.

D. Enjoying FREE exhibition of GCSI innovation projects

GCSI is the world only global exhibition/competition in the areas of Systematic Innovation. With ICSI participation, you can also enjoy the exhibits and presentations of the Global Competition on Systematic Innovation for FREE.

KEYNOTES AND TUTORIALS

<http://www.i-sim.org/icsi2017/Keynotes&Tutorials.html>



Keynote: Using Systematic Innovation to Accurately Map Future Markets & Scenarios

Tutorial: Systematic Service Innovation

Prof. Darrell Mann

Director, CEO, Systematic Innovation Network



Keynote: Artificial Intelligence and Innovation

Mr. Xiaochuan Wang

Sogou CEO, Former Sohu Senior Vice President, Chief Technology Officer



Tutorial: Integrating Biology and TRIZ for Innovative Design

Dr. Olga Bogatyreva

Director of BioTRIZ, Ltd.



Tutorial: Systematic Patent Circumvention, Enhancement, and Re-generation using TRIZ

Prof. D. Daniel Sheu

Professor, National Tsing Hua University



Special Talk: Opportunity-Driven Redesign Process and Training for Innovative Design in China

Prof. Runhua Tan

Vice President of Hebei University of Technology and Chair of China TRIZ Association



Special Talk: Social Systems Engineering and Innovative Methods

Prof. Yon Chung

China University of Politics and Law



Special Talk: Effective strategy to promote and practice TRIZ and Design thinking in companies: findings and lessons learnt from Korean practices

Prof. Kyeongwon Lee

Korea Polytechnic University

GCSI PROJECT COMPETITION/EXHIBITION

A concurrent event, the 7th Global Competition on Systematic Innovation (GCSI), will hold its final round of project competition in one of the special sessions of the ICSI conference. The goals of this GCSI exhibition are to promote systematic innovation/TRIZ and help the dissemination of innovation results. Multiple Platinum, Gold, Silver, Bronze medals and certificates will be awarded. ICSI participants can attend the project presentations and demonstrations free of charge. The Judge Committee reserves the right to adjust the number of awardees based on the quality of the projects. For details see:

<http://www.i-sim.org/icsi2017/GCSI-Callforprojects.html>.

ACCEPTED PAPERS

Regular sessions:

Titles	Author(s)
Patent around Target Definition to patent group	Yuansong Zheng, Changqing Gao, Shuxue Yin, Jianhua Sun
Resource Identification Method Based on Demand-Supply Thought Provoking Questions for Problem Solving	D. Daniel Sheu, Jealousy Hong, Raymond Lin
A Study on Trimming Method Based on Root-cause Analysis	Zhao Lei, Zhang Huan-gao, Yang Heng-Can, Liu Li-meng
AN INTEGRATED TRIZ AND FEA FRAMEWORK FOR ENGINEERING CHANGE REQUESTS RESOLUTION	Michael H. Wang
The Originality of Reverse Umbrella	Jyhjeng Deng, Youn-Jan Lin, Jo-Peng Tsai
Research on the complexity of design process based on TRIZ	Jian Gao, Jianguang Sun
Systematic innovation design of tire breaker based on TRIZ	Kang Wang, Jianguang Sun, Yu Wang, Jian Gao
A Theory-driven Comparison and Enlightenment of TRIZ, USIT and ASIT	Wei Yao, Xu Han
Research on Radical Innovation Process of Mechanical Product	Feng Yan-Xia, Yang Bo-Jun, Sun Qun
Applying the Market Orientation with TRIZ Approach in NPD	Shou-Wei Chen, Yen-Hsiu Chen
TRIZ Application on Fishing Hand Pole with An Active Scent Releasing Lure to Increase Fish Catch Rates	Jeng Yaug-Fea, Hsia Tai-Chang, Huang Su-Chen
Business TRIZ on enhancing the Long-term Care Facilities for the Elderly-take	Hsia Tai-Chang, Huang Su-Chen
The High Heel with Dual Function	Jyhjeng Deng, Jo-Peng Tsai, Youn-Jan Lin, Teng-Hsuan Lin
The Patent Map of a Measuring Cup	Jyhjeng Deng, Juin Yi Lee
Review of Modeling Techniques for Conceptual Stage of Design	Lizhen Jia, Xuehong Zhu, Runhua Tan
Prioritized TRIZ Trend Solution Identification Based on Function-attribute Similarity	D. Daniel Sheu, Nai Cheng Teng
TRIZ method for the feeding device of square baler design	Luo Jinhai, Wang Zhenhua, Zhang Ping, Li Zhijie
Industry 4.0-Oriented Systematic Innovation Framework for Fastener Industry	Jo-Peng Tsai, Shih-Chuan Cheng
Applying TRIZ and Knowledge Management to Customer Complaint Problem for Fastener Industry	Jo-Peng Tsai, Shih-Chuan Cheng
The rain on the side window of the car blocked the driver's sight	Yang Zhao, Fusheng Yu

Innovative Design for Magnus effect of Unmanned Aerial Vehicle Based on TRIZ	Jiadong Zhang, Fusheng Yu
Design a Device to Detect Vibrations of Building Based on Substance-Field Analysis	Shan-Yang Wang
Design Self-Alleviating Pain System Based on TRIZ method	Shan-Yang Wang
Psychological Inertia in Communication of Innovation	Shan-Yang Wang
Analysis of Water-pump and Propeller Based on TRIZ	Fusheng Yu, Haizhi Guo
Innovative Design for Upstairs Equipment with Load Based on TRIZ	Fusheng Yu, Haizhi Guo
A Preliminary Study on Developing Design Thinking Based Systematic Innovation	Chun-Ming Yang, Thu-Hua Liu, Ya-Yi Zheng
Design Thinking Process with Quick TRIZ for Systematic Innovation	Kyeongwon Lee
Developing a New Beeswax Extractor with Systematic Innovation Method	Jo-Peng Tsai, Jyhjeng Deng, Youn-Jan Lin
Developing a No-Disturbing Others' Alarm Clock with Systematic Innovation Method and Arduino System	Jo-Peng Tsai, Youn-Jan Lin, Jyhjeng Deng
A Method and the Process Model of Functionality Innovative Design for Product Development	Jiangnan Liu, Weijian Lu
Modification of AFD for Green Product Design	Hsin Rau, Po-Hsun Chen, Mary Deanne Lagapa
Engineering and Science Teaching in HE as a Spiritual Discipline: An Approach to Improving Creative and Personal Skills	Paul Filmore
Applying Systematic Innovation Method to Improve a Roasting Oven	Jo-Peng Tsai, Shih-Chuan Cheng
A Questionnaire to Study the Effects of Applying the User-Centric NPD with Integration of Scenario-Based Design and TRIZ	Chun-Ming Yang, Thu-Hua Liu, Yan-Lin Lee
Applying Functional Analysis and Evolution Trends to Deal with Problem that Teacher Poorly Controls Students	Youn-Jan Lin, Jyhjeng Deng, Jo-Peng Tsai
Applying Functional Analysis and Inventive Standards to Deal with Problem of iPhone Interferes Students learning	Youn-Jan Lin, Jo-Peng Tsai, Jyhjeng Deng
Disruptive Innovation: Transforming Commodity to High-Value Innovative New Products	Kim Hua Tan, Hui Hong Li, Pui Ling Chung
A Model of Instruction for Systematic Innovation in University Based on a Cross-Disciplinary Course and its Application	Zhou Xianyong, Chen Guang, Tang Zhihong, Liu Feng
Innovative Design of a Smart Energy-Saving Extension Line	Yu-Gang Chen, Kuo-Hsun Yu
The Fit Effects of Multi-Brand Strategy Enterprise	Hui-Hua Ouyang, Hsiao-Yu Chang
Disruptive Cities Verses Smart Cities for the Gulf Countries and Systematic Innovation	Jibran Walji, Jabir Walji
A Review on Safety Integration Solving Tools in Innovative Design Process	Shu Lun Mak

An Innovation Case Study of Parallel Bars in Rehabilitation Department: TRIZ Application	Tzu Ling Pan, Chih-Hsien Chen
Study on the Ecological Design Method of Idealized Perceptual Interaction of Silage Machinery	Jie Yan, Bing Lv, Jianqiang Wang, Bo Yang, Mengjia Chen
Study of Silage Machine by Active Optimization Structure Principle	Jianqiang Wang, Bing Lv, Jie Yan, Changqing Gao, Zequn Li
Introduction to a Mainstream Korean TRIZ Methodology, DASE, and its application in Korea	Min-Gyu Lee, Yury Danilovskiy, Vasily Lenyashin, Sung-Hong Kim, Kyujin Jung
An Innovation Case Study of Tilting Table in Rehabilitation Department: TRIZ Application	Chie-Yu Lin, Chih-Hsien Chen
Innovative-driven Strategies for Growth Industries: A Review on Engaging Testing and Certification Industry	Fanny Tang
A critical review of Electric Vehicles industry: How to sustain the leader position through lean concepts in cleaner	Chi Ho Li

Chinese Special Session:

Titles	Author(s)
Expression of 40 Inventive Principles in TRIZ by Chinese Poetry and its New Model of Instruction	Xianyong Zhou, Guang Chen, Zhihong Tang, Feng Liu
Multiple methods of integrated business technology foresight study	Chu Liu, Shu Chen, Linlin Sun, Nan Wu
Management Problem Solving Process Based on Function Analysis	Liu Chuang, Wu Nan, Zhang Xiao Ming
Applications and importance of Resource analysis in TRIZ	Zhang Shi Tong, Xu Chun Fang, Sun Lin Lin
Improvement and design of baby dining chairs based on the theory of TRIZ	Zhang Shi Tong, Xu Chun Fang, Sun Lin Lin
TRIZ Applications in Product experience design course system	Sun Xiao Feng, Zhao Xin Jun, Zhong Ying
TRIZ application of fire truck fire distinguishing using high temperature water	Zhong Ying, Qiao An Ying, Zhao Xin Jun, Sun Xiao Feng
Research on the Application of Systematic Innovation Technology to the Problem of Aging Society	Li-Yuan Chen, Guang-Zhen Chen
基于 CEN/TS16555 之创新管理能力评估模型之研究	Meng-Zong Guan, Qi-Huang Chen

To participate, please register at: <http://www.i-sim.org/icsi2017/>