

Sophia Workshop at Shenyang

System Control Technology for Smart Mobility of Cyber-Social Environment

Sep. 16-19, 2018, Shenyang, China



中国自动化学会-车辆控制与智能化
Technical Committee On Vehicle Control And Intelligence

Program

16th Sep. Registration (Northeastern University)

17th Sep. Workshop

□ Welcome Address (Chair: Prof. Jinliang Ding)

8:50-9:00 Prof. Tianyou Chai

□ Keynote Address I (Chair: Prof. del Re Luigi)

9:00-9:50 **Trend in EU and Vision on The Next Stage**
Prof. Lars Eriksson, Linköping University, Sweden

□ Keynote Address II (Chair: Prof. Jinwu Gao)

9:50-10:40 **The Future of Engine**
Dr. Haie Chen, FAW, China

□ Lab Tour

11:00-12:00 The State Key Laboratory (Northeastern Univ.)

□ Lunch (12:00-13:30)

□ Keynote Address III (Chair: Prof. C. Guardiola)

13:30-14:20 **Trajectory Planning for Automated Vehicles:
Some Recent Results**
Prof. Li Li, Tsinghua University, China

□ Keynote Address VI (Chair: Prof. Mingxin Kang)

14:20-15:10 **Development of Connected and Automated
Vehicles in China (tentative)**
Dr. Jianguang Zhou, Dongfeng Motor Corporation
Technical Center, China

□ Coffee Break

□ Around Table Discussion (Chair: Prof. Tielong Shen)

15:30-17:15 **What May Happen and What We Should Do?**
Ilya Kolmanovsky, University of Michigan, USA
Per Tunestal, Lund University, Sweden
Carlos Guardiola, Polytechnic Univ. of Valencia, Spain
Gianfranco Rizzo, University of Salerno, Italy
del Re Luigi, Johannes Kepler University, Austria
Lars Eriksson, Linköping University, Sweden
Ohata Akira, Sophia University, Japan

(*5 Minutes with 3 pages slides for each panelist)

18:00-20:00 Banquet

18th Sep. Industrial Technical Tour and Excursion

To be arranged.....

Organizers:

- State Key Laboratory of Synthetical Automation for Process Industries (SAPI), **Northeastern University**
- Shen Laboratory, **Sophia University**
- Technical Committee on Vehicle Control and Intelligence, CAA

Venue:

Northeastern University,
NO. 3-11, Wenhua Road, Heping District,
Shenyang, P. R. China

Chairs:

Tielong Shen (Sophia Univ.)
Jinliang Ding (Northeastern Univ.)

Steering Committee :

Mingxin Kang (Northeastern Univ.)
Jinwu Gao (Jilin Univ.)
Jiangyan Zhang (Dalian Minzu Univ.)
Yuhu Wu (Dalian Univ. of Technology)
Yahui Zhang (Sophia Univ.)
Yichen Shen (Sophia Univ.)

Official Language:

English / Chinese



Keynote I: Trend in EU and Vision on The Next Stage

Prof. Lars Eriksson, Linköping University, Sweden

Biography: Lars Eriksson received the M.Sc. degree in Electrical Engineering 1995 and the Ph.D. in Vehicular Systems, 1999, both from Linköping University. His main research interests are modeling, simulation and control of vehicle propulsion system where he has a special interest in issues related internal combustion engines and vehicle powertrains. The following list topics describe the research areas that Lars Eriksson has a high interest in: Ion sensing, Zero-dimensional in-cylinder pressure models, Calculation of chemical equilibrium, Modeling and control of turbocharged SI and DI engines, Turbocharger modeling.



Keynote II: The Future of Engine

Dr. Chen Haie, Chief Specialist, Dept. of Powertrain, China FAW Group Co. Ltd.

Biography: Chen Haie, got her master degree from Jilin university at 1989. Her main research area is engine performance and combustion, Now she is the chief specialist of powertrain department, FAW, responsible for the technological decision of engine development.



Keynote III: Trajectory Planning for Automated Vehicles: Some Recent Results

Prof. Li Li, Tsinghua University, China

Biography: Dr. Li Li is currently a tenured Associate Professor at the Department of Automation, Tsinghua University, Beijing, China. He is involved in the fields of artificial intelligence, intelligent control and sensing, intelligent transportation systems, and intelligent vehicles. He has authored over 80 SCI indexed international journal papers and over 70 international conference papers as a first/corresponding author. He serves as an Associate Editor of IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS and is a Member of Editorial Advisory Board, Transportation Research Part C: Emerging Technologies.



Keynote IV: Development of Connected and Automated Vehicles in China (tentative)

Dr. Jianguang Zhou, Dongfeng Motor Corporation Technical Center, China

Biography: 周剑光, 工学博士, 研究员级高级工程师, 东风汽车公司技术中心副院长, 中组部国家“千人计划”专家首批入选者, 湖北省特聘专家, 分管东风汽车公司技术中心的技术研究院、动力总成研究院和瑞典T工程公司, 负责技术中心研究部、整车部、电子电器部、实验部、车身部和动力总成开发部、动力总成工程部以及新能源动力总成部的日常管理工作, 主持东风自主品牌乘用车发动机, 新能源汽车, 发动机控制器, 智能汽车和无人驾驶技术开发和公司技术中心海外事业等业务。

目前兼任中国汽车工程学会环境保护技术分会副主任委员、湖北省机械工程学会理事, 在日华人汽车工程师协会中国会长、武汉市海外高层次人才联谊会副会长等社会职务。

2008年12月回国加盟东风汽车公司之前, 先后在日本五十铃自动车株式会社和日产自动车株式会社研发中心从事汽车发动机研发工作近十五年。(English)

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• Participant List

Lars Eriksson	Institutionen för Systemteknik, Linköping University	Sweden
Per Tunestal	Lund University	Sweden
Carlos Guardiola	Polytechnic University of Valencia	Spain
Benjamin pla	Polytechnic University of Valencia	Spain
Gianfranco Rizzo	Dept. of Industrial Engineering, University of Salerno	Italy
del Re Luigi	Institute for Design and Control of Mechatronical Systems, Johannes Kepler University, Linz, Austria	Austria
Ilya Kolmanovsky	University of Michigan	USA
Khajorntraidet Chanyut	Department of Engineering and Technology, King Mongkut's University of Technology North Bangkok	Thailand
Akira Ohata	Toyota Motor Corporation	Japan
Masato Ehara	Toyota Motor Corporation	Japan
Junichi Kako	Toyota Motor Corporation	Japan
Koto Sata	Toyota Motor Corporation	Japan
Akio Matsunaga	Toyota Motor Corporation	Japan
Shigeyuki Urano	Toyota Motor Corporation	Japan
Yui. Nishio	Honda R&D co. Ltd.	Japan
Li Li (李力)	Dept. of Automation, Tsinghua Univ. (清华大学自动化系)	China
Haie Chen(陈海娥)	Dept. of Powertrain, China FAW Group Co. Ltd (中国第一汽车 集团公司 动力总成部)	China
Tielong Shen	Sophia University	Japan
Yahui Zhang	Sophia University	Japan
Xun Shen	Sophia University	Japan
Zidan Xu	Sophia University	Japan
Kai Zhao	Sophia University	Japan
Yuhu Wu (吴玉虎)	Dalian Univ. of Tech. (大连理工大学 控制科学与工程学院)	China
Jinwu Gao(高金武)	Jilin Univ. (吉林大学 汽车仿真国家重点实验室)	China
Jiangyan Zhang (张江燕)	Dalian Minzu Univ. (大连民族大学)	China
Yinghao Xu (徐英豪)	Brilliance Auto Group (沈阳华晨汽车工程研究院)	China
To be updated...		