

## Chengliang Yin

### Education and Training

Jinlin Industrial University	Vehicle engineering	Ph.D.	April 2000
Jinlin Industrial University	Vehicle engineering	M.Sc.	March 1996
Huazhong University of Technology	Solid Mechanics	B.Sc.	July 1986

### Research and Professional Experience

2008–present	Vice Director of National Engineering Laboratory for Automotive Electronic Control Technology
2007–present	Vice Dean of Automotive Engineering Institute, Shanghai Jiao Tong University
2004–present	Professor and Ph.D. mentor
2000– 2002	Post Ph.D., School of Mechanical Engineering, Shanghai Jiao Tong University
1993– 2000	Advanced engineer and section chief, Dongfeng Institute of Automotive Engineering
1986– 1993	Engineer, Technological Center of Dongfeng Automobile Company

### Publications (selected from 46 peer reviewed publications)

Five publications closely related to the proposal

- Yin CL, Wang CL , Zhang T, Zhu L. Powertrain design and experiment research of a parallel hybrid electric vehicle. *International Journal of Automotive Technology*, Vol. 10, No. 5, pp. 589-596, 2009.
- Xiong WW, Zhang Y, Yin CL. Configuration design, energy management and experimental validation of a novel series-parallel hybrid electric transit bus. *Journal of Zhejiang University-Science A*, Vol.10, No.9, pp. 1269-1276, 2009.
- CL Yin , YJ Huang, JW Zhang. Design of an energy management strategy for parallel hybrid electric vehicles using a logic threshold and instantaneous optimization method *International Journal of Automotive*, Vol. 10, No. 4, pp. 513-521,2009.
- WW Xiong, C Yin , Y Zhang. Optimal energy management for a series-parallel hybrid electric bus. *Energy Conversion and Management*, Vol.50, No.7, pp.1730-1738,2009.
- ZHANG Yong, YIN Chengliang, ZHANG Jianwu. Real-time estimation algorithm of vehicle lateral speed, *Chinese Journal of Mechanical Engineering*, Vol. 44, No.2, 2008.

Five other significant publications

- Zhu Zhengli, Zhang Jianwu, Yin Chengliang. Optimization approach for hybrid electric vehicle powertrain design,*Chinese Journal of Mechanical Engineering (English Edition)*,Vol. 18, No.1,2005.
- Pu Jinhuan, Yin Chengliang, Zhang Jianwu. Energy management strategy for parallel hybrid electric vehicles, *Chinese Journal of Mechanical Engineering*, Vol. 18, No.2, 2005.
- Peizhi Zhang, Chengliang Yin, Jianwu Zhang. Sliding mode control with sensor fault tolerant for electronic throttle, *Proceeding of the 2006 IEEE International Conference on Automation Science and Engineering*, 2006.
- Chen Deling, Yin Chengliang, Chen Li. Study on active front steering based on state-space observer. *China Mechanical Engineering*, 2007.

## Vitae

- Jianlong Zhang, Chengliang Yin and Jianwu Zhang. Use of fuzzy controller for hybrid traction control system in hybrid electric vehicles, IEEE International Conference on Mechatronics and Automation, 1351-1356, 2006.

### **Synergistic Activities** (List no more than five professional and scholarly activities)

- Main technological director for the national “863” project of “R & D for EQ7200HEV” (2002.1-2005.12), and Project director for its sub-project of “Applying research of multi-energy power train control system for EQ7200HEV” (2003.1-2005.12).
- Project director in SJTU for the national “863” project: “R&D for SWB6116HEV” (2006.6-2008.12).
- Project director for the project of General Motors North American Operations: “Low-cost Hybrid Electric Propulsion System” with \$450, 000. The research objectives are about the Low-cost Hybrid Electric Vehicle architecture and Components design and analysis of the selected HEV scheme, including transmission, engine, all-in-one controller and energy storage system.
- Project director for the project of R&D on Clutch Dyno with \$670, 000. The research objectives are about advanced clutch and control, advanced driveline component, transmission and control and EVT and control.
- Project director for the project of R&D on the Motor-Transmission Integrated System of Electric Vehicles with 1.8M RMB. The research objectives are about perform scheme design, integration structure design, analysis and simulation of the MTIS.

### **Potential Conflicts of Interests**

#### Collaborators and Co-editors (Last 4 years, alphabetical order):

Chunhao Joseph Lee, General Motors; Norman Bucknor, General Motors; Yu Dong, General Motors; Zhang Mingliang, General Motors; Gentsch Markus, idea-automotive Corp.; Dieter Nazareth.

#### Graduate and Postdoctoral Advisors and Advisees:

Thesis Advisees: Xiong WW, Ph.D, China; Zhang Y, Ph.D, China; Huang YJ , Ph.D, China; Zhu Zhengli; Pu Jinhuan Ph.D, China; Zhang Peizhi, Ph.D, China; Chen Deling, Ph.D, China; Zhang Jianlong, Ph.D, China.

Postgraduate-Scholar Sponsor: Dr. Hongwei Xu, Nanotech, Dr. Anfeng Wang, DSM PTG, Dr. Nadia Abunasser, MEDC.