Bin Li

Researcher, CONCAVE Research Center
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RESEARCH INTERESTS

Vehicle system dynamics & control
Energy-efficient electrified vehicle
Autonomous vehicles
Mechatronics system control
Model-based control system design
Optimal control/nonlinear control

EDUCATION

Ph.D. **Mechanical Engineering** 2010
Shanghai Jiao Tong University, Shanghai, China
B.Sc. **Mechanical Engineering** 2001
Chongqing University, Chongqing, China

EXPERIENCE

Researcher 2014~
Concordia University, Montreal, Canada
Research Engineer 2013~2014
Mcgill University, Montreal, Canada
Research Fellow 2010~2013
University of Waterloo, Waterloo, Canada
Chassis System Engineer 2001~2003
China FAW Group CO. R&D Center, Changchun, China

Selected Publications

Bin Li, Zhijun Fu. Coordinated Control of Active Steering and Active Roll Control for Enhanced Vehicle Lateral Dynamics. International Journal of Vehicle Performance, 2016 (In press).
Bin Li, Subhash Rakheja and Ying Feng. Enhancement of vehicle stability through integration of the direct yaw moment and active rear steering. Proc. IMechE, Part D: J. Automobile Engineering, 2016, 230(6):830-840.
Bin Li, Avesta Goodarzi, Amir Khajepour, Shih-Ken Chen, Bakhtiar Litkouhi. An optimal torque distribution control strategy for four independent wheel drive electric vehicles. Vehicle System Dynamics, 2015, 55(8):1172-1189.
Abtin Athari, Saber Fallah, Bin Li, Amir Khajepour, et al., Optimal Torque Control for an Electric-Drive Vehicle with In-Wheel Motors: Implementation and Experiments. SAE International Journal

of Commercial vehicles, 2013, 6(1):82-92.

Bin Li, Fan Yu. Design of a vehicle lateral stability control system via a fuzzy logic control approach. Proc. IMechE, Part D: J. Automobile Engineering, 2010, 224 (D3):313-326.

Bin Li, Fan Yu. Model Following control of four-wheel active steering vehicle. Journal of Shanghai Jiao Tong University, 2009, 43(10):1531-1535.

Bin Li, Fan Yu. Vehicle yaw dynamics through combing four-wheel-steering and differential Braking. Transactions of the Chinese Society for Agricultural Machinery, 2008, 39(12):1-6.

Bin Li, Fan Yu, and Cong Li. Automotive front and rear active steering control system. Chinese Patent: CN 101618733 B, June 2009.

ACADEMIC ACTIVITIES

Lead Guest Editor	Journal of Advances in Vehicle Engineering
Lead Guest Editor	International Journal of Heavy Vehicle Systems
Lead Session Organizer	SAE 2017 World Congress M210: Handling Dynamic and Control
Editorial Board Member	International Journal of Vehicle System Modelling and Test
	Advances in Automotive Engineering, An International Journal
	Journal of Advances in Vehicle Engineering