

## 李伟

李伟, 1981年10月生, 博士, 副教授, 2009年5月毕业于德国 Duisburg-Essen 大学复杂系统与自动化研究所, 获工学博士学位, 2009年9月进入中国矿业大学机电工程学院。主要研究方向为机电系统状态监测、故障诊断以及寿命预测, 机电系统建模与仿真。

作为项目负责人主持国家自然科学基金项目1项、江苏省科技支撑计划(工业项目)2项、中国博士后基金1项, 以及其他省部级项目3项; 参与并完成了国家863项目1项, 国家自然科学基金项目1项。在《Measurement Science & Technology》、《IET Control Theory & Application》、《International Journal of Systems Science》等高影响力国际期刊及IEEE等高水平国际会议上发表学术论文被SCI检索11篇(第一作者8篇)。授权国家发明专利12件(第一发明人4件), 申请并公开国家发明专利20余件, 获软件著作权2件。获教育部科技进步二等奖1项、江苏省科技进步三等奖2项, 入选教育部新世纪优秀人才、江苏省“333”高层次人才培养对象、江苏省“六大人才高峰”高层次人才培养对象。担任国家自然科学基金函评专家, 担任《IET Control Theory & Application》、《International Journal of Systems Science》、《自动化学报》等国内外期刊的审稿人。

承担《机电控制》、《测试技术》等课程的教学工作, 并指导多项国家、省级大学生科研训练计划。目前, 指导博士研究生1人、硕士研究生7人。近两年来, 所指导的研究生申报发明专利10余项, 以第一作者或通讯作者发表SCI论文4篇。

2013、2014学年招收机械电子、机械设计学术型硕士和博士研究生, 参与973、国家自然科学基金等纵向课题研究, 主要方向为机电控制、故障诊断、振动分析。另外, 招收若干名应用型研究生进入企业研究生工作站, 参与横向课题研究。



### 1、主要论文:

#### 2013年:

- [1] Wei Li\*, Zhencai Zhu, Gongbo Zhou and Guoan Chen. Optimal H-i/H-infinity fault-detection filter design for uncertain linear time-invariant systems: an iterative linear matrix inequality approach, IET Control Theory & Applications, 7(8), pp.1160-1167, 2013 (SCI: 000322702400010, IF: 1.717)
- [2] Wei Li\*, Fan Jiang, Zhencai Zhu, Gongbo Zhou and Guoan Chen: Fault diagnosis of bearings based on a sensitive feature decoupling technique. Measurement Science and Technology, 2013: 24(3), 035602. (SCI: 000315185900024, IF: 1.435)
- [3] Wei Li, Zewen Wang\*, Fan Jiang, et al. Design of online monitoring and fault diagnosis system for belt conveyors based on wavelet packet decomposition and support vector machine. Advances in Mechanical Engineering, 2013 (SCI: 000319919300001, IF: 1.062)
- [4] Zhongqiu Wang, Zhencai Zhu, Wei Li, et al. Total Energy Growth Rate of Rolling Bearing due to Faults during Run-Up. Advances in Mechanical Engineering, 2013 (SCI: 000319594000001, IF: 1.062)

#### 2012年:

- [1] Fan Jiang, Wei Li\*, Zhongqiu Wang and Zhencai Zhu: Fault Severity Estimation of Rotating Machinery Based on Residual Signals, Advances in Mechanical Engineering, 2012, 10 pages (SCI: 000310012900001, IF: 1.062)
- [2] Wei Li\*, Fan Jiang, Zhongqiu Wang, Gongbo Zhou and Zhencai Zhu: Fault detection of Markov jumping linear systems, Mathematical Problems in Engineering, 2012, 27 pages (SCI: 000304936100001, IF: 1.383)
- [3] Zewen Wang, Wei Li\*, Baoyu Cao and Fan Jiang: Design of the remote monitoring system for mine hoists. Control and Decision Conference (CCDC), 2012 Chinese, pp. 3540 - 3544, 2012 (EI: 20124015483965)
- [4] Fan Jiang, Wei Li\*, Zhongqiu Wang, Wang Zewen and Baoyu Cao: Fault diagnosis of rotating machinery based on MFES and D-S evidence theory. Control and Decision Conference (CCDC), 2012 24th Chinese, pp. 1624 - 1629, 2012 (EI: 20124015483292)

## 2011年:

- [1] **Wei Li\***, Zhongqiu Wang, Gongbo Zhou and Zhencai Zhu. Design of Fault Tolerant Wireless Networked Control Systems, Control and Decision Conference (CCDC), 2011 Chinese, pp. 65 – 68, 2011 ([EI: 20113614294997](#))
- [2] **Wei Li\***, Zhencai Zhu and S.X. Ding: Fault detection design of networked control systems, IET Control Theory & Applications, 5(12), pp. 1439-1449,

## 2010年:

- [1] **Wei Li\*** and Steven X. Ding. Remote Fault Detection Design with Online Channel Reliability Information, International Journal of Systems Science, 41(8), pp. 957-970, 2010 ([SCI: 000280248000005](#), [IF: 1.305](#))
- [2] **Wei Li\*** and Zhencai Zhu. Encoder and Decoder Design for Fault Detection Over Networks, Proceedings of MSC 2010, Yokohama, Japan, 2010, pp. 1785 - 1789 ([EI: 20104813441913](#))
- [3] **Wei Li\***, W.H. Gui, Y.F. Xie and S.X. Ding. Decentralised fault detection of large-scale systems with limited network communications, IET Control Theory & Applications, 4(9), pp. 1867-1876, 2010 ([SCI: 000281758300032](#), [IF: 1.717](#))

## 2009年之前:

- [1] **Wei Li\***, P. Zhang and S.X. Ding: Fault detection of networked control systems with quantized measurements, 2nd NeCST Workshop on Networked Control Systems and Fault Tolerant Control, Rende, Italy, 2006
- [2] **Wei Li\***, P. Zhang, S.X. Ding and O. Bredtmann: Fault detection over noisy channels, Proceedings of 46th IEEE Conference on Decision and Control, New Orleans, USA, 2007 ([EI: 20080911118468](#))
- [3] **Wei Li\***, P. Zhang, S.X. Ding, I.C. Chihaiia, E. Goldschmidt, O. Bredtmann and A. Czylik: Networked fault detection systems with noisy data transmission, at-Automatisierungstechnik, vol. 56(1), pp. 49-57, 2008 ([SCI: 000255245300006](#), [IF: 0.284](#))
- [4] **Wei Li\*** and S.X. Ding: Integrated design of an observer-based fault detection system over unreliable digital channels, Proceedings of 47th IEEE Conference on Decision and Control, Cancun, Mexico, 2008 ([EI: 20091411995358](#))
- [5] S.X. Ding, P. Zhang, C. Chihaiia, **Wei Li** and Y. Wang: Advanced Design Scheme for Fault Tolerant Distributed Networked Control Systems, Proceedings of IFAC World Congress, Seoul, South Korea, 2008
- [6] Y. Wang, S.X. Ding, P. Zhang, **Wei Li** and Y. Hao: Fault detection of networked control systems with packet loss, Proceedings of IFAC World Congress, Seoul, South Korea, 2008
- [7] Y. Wang, S.X. Ding, H. Ye, **Wei Li**, P. Zhang and G. Wang: Fault detection of networked control systems with packet based periodic communication, Int. J. Adapt. Control Signal Process, 23(8), pp. 682-698, 2008 ([SCI: 000268552400002](#), [IF: 1.219](#))
- [8] **Wei Li\***, W.H. Gui, Y.F. Xie and S.X. Ding: Decentralized fault detection of large-scale complex systems, IFAC SAFEPROCESS, Barcelona, Spain, 2009
- [9] I.C. Chihaiia, O. Bredtmann, E. Goldschmidt, **Wei Li**, S.X. Ding and A. Czylik: WiNC-platform of wireless networked control systems, IFAC SAFEPROCESS, Barcelona, Spain, 2009
- [10] **Wei Li\***, S.X. Ding and Zhencai Zhu. Optimal  $H_2/H_\infty$  fault detection filter design: an iterative LMI approach, Proceedings of 48th IEEE Conference on Decision and Control, Shanghai, China, 2009, pp. 996 - 1001 ([EI: 20101612849618](#))

## 2、主要科研奖励

- [1] 2010年教育部科技进步一等奖: 大型矿井提升系统智能故障诊断关键技术及应用, 排名第4
- [2] 2012年江苏省科学技术三等奖: 大型干混砂浆成套设备关键技术及应用, 排名第3
- [3] 2010年江苏省科学技术三等奖: 大型水泥生产系统节能降耗关键技术及应用, 排名第7

## 3、主要发明专利

- [1] 发明专利: 一种矿井提升机运行故障检测方法, ZL201010268452.X, 已授权, 排名第1。
- [2] 发明专利: 旋转机械多点无线应力检测装置和方法, ZL201010278971.4, 已授权, 排名第1。
- [3] 发明专利: 一种纵向电感式钢丝绳张力检测方法和装置, ZL201110376457.9, 已授权, 排名第1。
- [4] 发明专利: 一种横向电感式钢丝绳张力检测装置及方法, ZL201110376418.9, 已授权, 排名第1。

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