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受教育经历

- 2009.9-2012.7：博士，中国科学技术大学，合肥
- 2005.9-2007.7：硕士，华中科学技术大学，武汉
- 1999.9-2003.7：本科，陕西师范大学，西安

工作经历

- 2016.8-2017.9 访问学者，纽约大学(New York University, 美国)
- 2013.9-2016.9 讲师、副教授，陕西师范大学，西安
- 2012.8-2013.8 博士后，金山大学 (the University of Witwatersrand，南非)
- 2003.7-2009.7 助教、讲师，周口师范学院，周口

研究方向

- 自抗扰控制及应用、非线性控制及应用

论文、专著：

论著（攻读学位期间完成的合作论文和专著作者按国际数学学科的惯例——姓氏字母排序，工作后完成的合作论文作者按贡献排）

- 专著

 1、B.Z. Guo and Z.L. Zhao, *Active disturbance rejection control for nonlinear systems*： *an introduction*, John Wiley & Sons, 2016 (368 pages).

- 期刊论文

 1、Z.L. Zhao and B.Z.Guo, A novel extended state observer for output tracking of MIMO systems with mismatched uncertainty, *IEEE Transactions on Automatic Control*, in press.

 2、Z.L. Zhao and B.Z. Guo, A nonlinear extended state observer based on fractional power functions, *Automatica*, 81(2017), 286-296.

 3、Z.L. Zhao and B.Z. Guo, Active disturbance rejection control approach to stabilization of lower triangular systems with uncertainty, *International Journal of Robust and Nonlinear Control*, 26(2016), 2314-2337.

4、Z.L. Zhao and B.Z. Guo, On convergence of nonlinear active disturbance rejection control for a class of nonlinear systems, *Journal of Dynamical and Control Systems*, 22(2016), 385-412.

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7、B.Z. Guo and Z.L. Zhao*, Active disturbance rejection control: theoretical perspectives, *Communications in Information and Systems*, 15(2015), 361-421.

8、B.Z. Guo and Z.L. Zhao*, Weak convergence of nonlinear high-gain tracking differentiator, *IEEE Transactions on Automatic Control*, 58, 1074-1080, 2013.

9、B.Z. Guo and Z.L. Zhao*, On convergence of the nonlinear active disturbance rejection control for MIMO systems, *SIAM Journal on Control and Optimization*, 51, 1727-1757, 2013.

10、Z.L. Zhao and B.Z. Guo, Active disturbance rejection control to stabilize one-dimensional wave equation with interior domain anti-damping and boundary disturbance (Chinese), *Control Theory & Applications*, 30(2013), 1553-1563.

11、B.Z. Guo and Z.L. Zhao*, On convergence of non-linear extended state observer for multi-input multi-output systems with uncertainty, *IET Control Theory & Applications*, 6(2012), 2375-2386..

12、B.Z. Guo and Z.L. Zhao*, On the convergence of an extended state observer for nonlinear systems with uncertainty, *Systems & Control Letters*, 60(2011) 420-430.

13、B.Z. Guo and Z.L. Zhao*, On convergence of tracking differentiator, *International Journal of Control*, 84(2011), 693-701.

14、Z.L. Zhao and J.H. Liang, Existence of solutions to functional boundary value problem of second-order nonlinear differential equation, *Journal of Mathematical Analysis and Applications*, 373(2011), 614-634.

15、Z.L. Zhao, J.H Liang and L.S. Ren, A multi-point boundary value problems with three dimension kernel at resonance, *Advances in Mathematics*(China), 38(2009), 345-358.

16、Z.L. Zhao and J.H. Liang, A generalized multi-point boundary value problems at resonance (Chinese), *Acta Mathematicae Applicatae Sinica-Chinese Series*, 32(2009), 277-284.

17、B. Liu and Z.L. Zhao, A note on multi-point boundary value problems, *Nonlinear Analysis,TMA*, 67(2007), 2680-2689.

· 会议论文

1、B.Z. Guo and Z.L. Zhao*, Extended state observer for nonlinear systems with uncertainty, *18th IFAC World Congress*, 2011, 1855-1860.

2、B.Z. Guo and Z.L. Zhao*, On convergence of tracking differentiator and application to frequency estimation of sinusoidal signals, *8th Asian Control Conference*, 2011, 1470-1475.

3、B.Z. Guo and Z.L. Zhao*, On finite-time stable tracking differentiator without Lipschitz continuity of Lyapunov function, *30th Chinese Control Conference*, 2011, 354-358.

4、B.Z. Guo and Z.L. Zhao*, On convergence of nonlinear active disturbance rejection for SISO systems, *24th Chinese Control and Decision Conference*, 2012, 3524-3529.

5、Z.L. Zhao and B.Z. Guo, On convergence of nonlinear active disturbance rejection control for MIMO systems, *31st Chinese Control Conference*, 2012, 434-441.

6、Z.L. Zhao and B.Z. Guo, On convergence of nonlinear extended state observer with switching functions, *35th Chinese Control Conference*, 2016, 664-669.

7、Z.L. Zhao, B.Z. Guo, and Z.P. Jiang, A new extended state observer with application to output tracking for nonlinear MIMO systems with uncertainty, *56th IEEE Conference on Decision and Control*, to appear.

· 待发表论文

1、Z.L. Zhao and Z.P. Jiang, A global finite-time output-feedback stabilizer with an application to robotics, Preprint.

2、Z.L. Zhao and Z.P. Jiang, Finite-time output feedback stabilization of lower-triangular nonlinear systems, Submitted to *Automatica*.

3、Z.L. Zhao, B.Z. Guo, and Z.P. Jiang, Fractional-power extended state observers for output tracking of uncertain nonlinear MIMO Systems, submitted to *SIAM Journal on Control and Optimization*.

科研项目：

1、自抗扰控制的理论研究及应用（No. GK201702013），中央高校特别支持项目，主持，2017.1-2019.12.

2、一类扩张状态观测器的设计与性能分析(No. 2016JZ023),陕西省自然科学基础研究计划——重点项目，主持，2016.1-2018.12；

3、一类不确定性系统的非线性自抗扰控制研究(No. 61403242),国家自然科学基金青年项目,主持,2015.1-2017.12；

4、基于最速反馈函数的跟踪微分器的研究，教育部留学回国人员科研启动基金，主持，2015.1-2016.12。

各种奖励：

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