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发布时间: 2017-04-05

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## 个人简介

男, 职称: 教授

2004年4月毕业于香港城市大学的制造工程系机电专业。

## 主要研究方向

机构动力学与控制, 机构动力学与控制

## 科研与学术工作经历

- 1、2005/2-至今, 天津科技大学, 机械学院机电工程专业, 教授
- 2、2004/10-2005/2, 中山大学, 电子与通信工程系, 百人计划引进
- 3、2002/10-2004/10, 香港城市大学深圳研究院, 高级研究助理
- 4、1996/10-1999/5, 哈尔滨工业大学管内机器人研究室, 研发人员
- 5、1992/9-1994/7, 烟台汇元电子仪表公司, 技术人员

## 主持或参加的科研项目

- 1、十一五国家科技部科技支撑项目, 2009BAI71B01, 患者辅助洗浴装置研制, 2010/01-2012/12, 37.8万元, 已结题, 参加
- 2、天津市应用基础及前沿研究计划, 08JCYJBC0100, 头颈部有限元分析, 2009/01-2011/12, 10万元, 已结题, 参加
- 3、国家自然科学基金项目, 60675046, 基于多运动模式复合的柔性针靶向穿刺机理与方法研究, 2008/01-2010/12, 27万元, 已结题, 主持;
- 4、天津市科技基金发展项目, 0JBC0203, 基于视觉的混凝土质量自动检测关键技术研究, 2007/01-2008/12, 3万元, 已结题, 主持
- 5、国家863资助项目, 8635120309, 管内机器人产业化开发, 1998/01-1999/12, 30万元, 已结题, 参加

## 学术成果

- 1.毕德学, 刘方滔, 薛强, 等. 基于激光交线的结构光视觉传感器现场标定新方法[J]. 仪器仪表学报, 2009, 30(8): 1697-1701.
- 2.毕德学, 于德敏, 许增朴. 基于核变换的高性能支持向量机分类算法[J]. 中国图象图形学报, 2008, 13(10): 1845-1848.
- 3.Bi D, Lu X. A new flexible approach for Single Laser stripe profiler Calibration[C]//Information and Automation, 2008. ICIA 2008. International Conference on. IEEE, 2008: 76-80. (会议论文)
- 4.Dexue B, Zeguo L, Qiang X, et al. Needle target-insertion trajectory planning based on reinforcement learning expert's skill[C]//Robotics and Biomimetics (ROBIO), 2009 IEEE International Conference on. IEEE, 2009: 1346-1350.
- 5.Lu X, Zengpu X, Dexue B. Experimental study on selection of aperture pattern based on image statistics[C]//Image and Signal Processing, 2009. CISP'09. 2nd International Congress on. IEEE, 2009: 1-5.
- 6.Xiaotong H, Dexue B. Designing for Threshold Values of Flat/Non-flat Image Blocks for Fractal Image Coding[C]//Computer Science and Information Engineering, 2009 WRI World Congress on. IEEE, 2009, 6: 275-279.
- 7.Xiaotong H, Wenxuan L, Dexue B. Research of Automatic Needle Puncture

Based on Ultrasound Image Processing[C]//Image and Signal Processing, 2009. CISP'09. 2nd International Congress on. IEEE, 2009: 1-5.

8.Lin Y, Xu Z, Bi D, et al. A New Approach for Handheld and Multi-Angle Structured Light Measurement[C]//Computational Intelligence and Industrial Application, 2008. PACIIA'08. Pacific-Asia Workshop on. IEEE, 2008, 2: 1014-1018.

9.Bi D, Lin Y. Vibrating needle insertion for trajectory optimization[C]//Intelligent Control and Automation, 2008. WCICA 2008. 7th World Congress on. IEEE, 2008: 7444-7448.

10.Wang G L, Li Y F, Bi D X. Support vector networks in adaptive friction compensation[J]. Neural Networks, IEEE Transactions on, 2007, 18(4): 1209-1219.

11.Wang G L, Li Y F, Bi D X. Support vector network enhanced adaptive friction compensation[C]//Robotics and Automation, 2006. ICRA 2006. Proceedings 2006 IEEE International Conference on. IEEE, 2006: 3699-3704.

12.Bi D.X., " A new approach for robot dynamics identification" , Journal of Tianjin University of Science and Technology, V22 , pp37 - 41 , 2007.

13.X. D. Bi, Z. P. Xu and Y. Li, "Moving Gaussian Process Window for Accurate Haptic Display" , The 6th World Congress on Intelligent Control and Automation, IEEE WCICA, Dalian, June, 2006.

14.Zhi WEI, Muhui FAN, Jun ZHANG and X. D. Bi, "NN-Based Damage Detection in Multilayer Composites" , Lecture Notes in Computer Science (LNCS) (Advances in Natural Computation),Publisher: Springer-Verlag GmbH, ISSN: 0302-9743, Volume 3611 / 2005, pp592-600.

15.X.D.Bi and Jun ZHANG, "Fuzzy Virtual Coupling for High Performance Haptic Display" , Lecture Notes in Computer Science (LNCS), (Fuzzy Systems and Knowledge Discovery),Publisher: Springer-Verlag GmbH, ISSN: 0302-9743, Volume 3613 / 2005, pp942-950.

16.X. D.Bi, G.L. Wang, Jun ZHANG and Q. Xue, "Novel Learning Feed-Forward Controller Design for Accurate Robot Trajectory Tracking" , Lecture Notes in Computer Science. (Advances in Natural Computation), Springer-Verlag GmbH, ISSN: 0302-9743, Volume 3611 / 2005, pp266-269.

17.Jun ZHANG, Henry CHUNG, Zhi WEI and X. D.Bi, "An Investigation into the Use of Delay Coordinate Embedding Technique with MIMO ANFIS for Nonlinear Prediction of Chaotic Signals" , Lecture Notes in Computer Science (LNCS) (Fuzzy Systems and Knowledge Discovery),Publisher: Springer-Verlag GmbH, ISSN: 0302-9743, Volume 3614 / 2005,pp.677-685.

18.G. L. Wang, Y. F. Li, and X. D. Bi, "Support Vector Machine based Friction modeling and compensation" , ASME & IEEE Transaction on Mechatronics, Vol. 9, No.3, pp. 601-606, September, 2004.

19.X. D. Bi, Y. F. Li, S. K. Tso, and G. L. Wang " SVM based friction identification for haptic display" , IEEE Transactions on Industrial Electronics, Vol. 51, No. 2, pp. 491-500, April, 2004.

20.Y. F. Li, and X. D. Bi, "A new method for dynamics identification for haptic display" , ASME & IEEE Transaction on Mechatronics, Vol. 8, No.4, pp.476-482, December, 2003.

21.X. D. Bi, Li Y. F. and Wang G. L., "Dynamics Identification for Enhanced Haptic Display in VR Based Training Platforms, in Virtual Reality and its Application in Industry" , SPIE, Vol. 4756, ISBN 0-8194-4519-3, Bellingham, WA, USA, 2003.

22.G. L. Wang, Y. F. Li, and D. Bi, "Support vector machine network for friction modeling" , American Control Conference 2003 (ACC2003), America, June, 2003.

23.Xiangxu Li Dexue Bi, " Research on precision Measurement of Machine Part Based on Radiometric Calibration" , Mechatronics and Intelligent Materials III, pp.706-708,2013.

24.D. Bi , etc. "Two DoF parallel Robot Design and dynamics simulation for

quick picking” , ITMS2012, 2012.

25.D. Bi, etc. “ A new design method of dexterous hand based on power second distribution” , ITMS2012, 2012.

26.Zhang Lijuan, D. Bi,etc. “Research of Qusdrotor Based on Exponential Trending Law and Quasi discrete Sliding mode Control” , AEIT 2011, 2011.

27.Sun Zhichao, D.Bi, etc. “ Method of Driving Brushless DC motor based on High Speeded I2c Protocol” , AEIT 2011,2011.

28.张丽娟, 毕德学. “基于GID地图的移动机器人路径规划” , 天津科技大学学报, 2012 , v 6

29.孙志超, 毕德学. TUST 灵巧手指设计[J]. 微计算机信息, 2012 (10): 126-127.

30.杨志永, 毕德学, 李林娜. 四旋翼直升机爬升速度检测方法与实验研究[J]. 计算机测量与控制, 2014, 22(5): 1475-1477.

31.龙海飞, 刘咏梅, 李相旭, 等. 基于 Kinect 的重障者辅助洗浴器具手势控制系统设计 [J]. 合肥工业大学学报: 自然科学版, 2014, 37(2): 183-187.

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