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学习经历

1988.09-1992.06 山西大学，应用数学专业，本科。

2002.09-2005.06 山西大学，运筹学与控制论专业，硕士。

2012.09-2016.06 山西大学，管理科学与工程专业，博士。

工作经历

1992.07-2002.07 大同市新荣区新荣中学教师。

2005.07-至今 山西大同大学数学与统计学院教师。

教学

主讲过《概率论》、《数理统计》、《测度论》、《可靠性统计》、《应用随机过程》、《应用时间序列分析》、《统计预测与决策》、《金融学》、《财政学》、《管理学》、《宏观经济统计分析》、《政治经济学》等课程。

科研领域

不确定理论及其应用。

科研、教研项目

1. 山西省自然科学基金项目（参与）。项目名称：变系数模型的假设检验；项目编号：2007011014；起止时间：2007.01.01-2009.12.31；经费：3万元。
2. 大同大学博士科研项目（主持）。项目名称：不确定微分方程及其应用；项目编号：2016-B-03；经费：10万元。

论文

1. **Zhiqiang Zhang**, Xiangfeng Yang. Uncertain population model, Soft Computing, 2020, 24: 2417-2423. (SCI)
2. Baoliang Liu, **Zhiqiang Zhang**, Yanqing Wen. Reliability analysis for devices subject to competing failure processes based on chance theory, Applied Mathematical Modelling, 2019, 75: 398-413. (SCI)
3. Xiangfeng Yang, **Zhiqiang Zhang**, Xin Gao. Asian-barrier option pricing formulas of uncertain financial

- market, Chaos, Solitons and Fractals, 2019, 123: 79-86. (SCI)
4. **Zhiqiang Zhang**, Hua Ke, Weiqi Liu. Lookback options pricing for uncertain financial market, Soft Computing, 2019, 23(14): 5537-5546. (SCI)
 5. **Zhiqiang Zhang**, Weiqi Liu, Jianhua Ding. Valuation of stock loan under uncertain environment, Soft Computing, 2018, 22(17): 5663-5669. (SCI)
 6. Rong Gao, **Zhiqiang Zhang**, Hamed Ahmadazde, Dan A. Ralescu. Complex uncertain random variables. Soft Computing, 2018, 22(17): 5817-5824. (SCI)
 7. **Zhiqiang Zhang**, Weiqi Liu, Xindong Zhang. Valuation of convertible bond under uncertain mean-reverting stock model, Journal of Ambient Intelligence and Humanized Computing, 2017, 8(5): 641-650. (SCI)
 8. Yuhong Sheng, Rong Gao, **Zhiqiang Zhang**. Uncertain population model with age-structure, Journal of Intelligent & Fuzzy Systems, 2017, 33(2): 853-858. (SCI)
 9. Gang Shi, **Zhiqiang Zhang**, Yuhong Sheng. Valuation of stock loan under uncertain mean-reverting stock model. Journal of Intelligent & Fuzzy Systems, 2017, 33(3): 1355-1361. (SCI)
 10. **Zhiqiang Zhang**, Weiqi Liu and Yuhong Sheng. Valuation of power option for uncertain financial market, Applied Mathematics and Computation, 2016, 286: 257-264. (SCI)
 11. **Zhiqiang Zhang**, Dan A. Ralescu and Weiqi Liu. Valuation of interest rate ceiling and floor in uncertain financial market, Fuzzy Optimization and Decision Making, 2016, 15(2): 139-154. (SCI)
 12. **Zhiqiang Zhang**, Rong Gao and Xiangfeng Yang. The stability of multifactor uncertain differential equation, Journal of Intelligent & Fuzzy Systems, 2016, 30(6): 3281-3290. (SCI)
 13. **Zhiqiang Zhang**, Weiqi Liu and Xiumei Chen. Uncertain zero-one law and convergence of uncertain sequence, Discrete Dynamics in Nature and Society, 2016: 2494583. (SCI)
 14. **Zhiqiang Zhang**, Weiqi Liu. Geometric average Asian option pricing for uncertain financial market, Journal of Uncertain Systems, 2014, 8(4): 317-320.
 15. **Zhang Zhi-qiang**, Zhang Ri-quan, Feng Jing-yan. Complete convergence for partial sums of the squares of ARCH sequence, Chinese Quarterly of Mathematics, 2010, 25(4): 601-605.
 16. Yang Shi, **Zhiqiang Zhang**, Riquan Zhang. On almost sure limit theorem and strong law of large numbers for squares sequence from ARCH(1), Advances and Applications in Statistics, 2008, 10(1): 149-154.
 17. **Zhiqiang Zhang**, Riquan Zhang, Jingyan Feng. Stationarity of squares sequences from ARCH(1), Advances and Applications in Statistics, 2008, 8(2): 291-296.
 18. Riquan Zhang, Zhensheng Huang, **Zhiqiang Zhang**. Functional-coefficient partially linear regression models with different smoothing variables, International symposium on financial engineering and risk management 2008.
 19. Fulong Han, Riquan Zhang, Jingyan Feng, **Zhiqiang Zhang**. Uniform coverage rate of nonparametric kernel estimate under mixing dependent data, Advances and Applications in Statistics, 2006, 6(3): 353-359.
 20. 师海燕, 魏淳, 温艳清, 张志强, 刘宝亮. 不确定环境下竞争失效系统的可靠性分析, 北京航空航天大学学报, DOI: 10.13700/j.bh.1001-5965.2019.0656.
 21. 冯井艳, 张日权, 张志强. 不同自变量的变系数模型的估计, 系统科学与数学, 2010, 30 (2) :

- 225-235.
22. 冯井艳, 张志强, 李华鹏. 变系数模型误差方差的估计, 山西大同大学学报, 2010, 26 (1) : 5-7.
23. 张志强, 冯井艳. 变系数 ARCH 模型绝对值序列的强大数定律, 应用概率统计, 2009, 25 (3) : 275-280.
24. 冯井艳, 张志强, 李秀兰. 变系数模型的误差方差的估计, 数理统计与管理, 2009 年第 28 卷增刊, 28-31.
25. 张志强, 张日权. ARCH (∞) 模型加权和序列的渐近收敛性, 山西大同大学学报, 2008, 24 (2) : 4-5.
26. 张志强, 刘维奇, 张日权. ARCH 序列部分和的矩不等式, 山西大学学报, 2008, 31 (2) : 163-166.
27. 张日权, 张志强, 冯井艳. 一类新的变系数模型的积分估计, 山西大同大学学报, 2007, 23 (2) : 1-5.
28. 张志强, 刘维奇. 关于我国全要素生产率的时间序列分析. 山西大学学报, 2004, 第 27 卷增刊, 11-13.
29. 张志强, 冯井艳. ARCH 模型绝对值序列的强大数定律. 雁北师范学院学报, 2007(2): 9-14.

学术兼职

- 1.中国运筹学会 不确定系统分会 理事.
- 2.中国运筹学会 智能计算分会 常务理事.
- 3.国际电子商务联合会 中国分会理事会 理事.
4. International Association for Information and Management Sciences, member of board.

荣誉及获奖

- 1.山西大同大学 2006 年度优秀班主任
- 2.2007 年“挑战杯”高校师生课外科技活动大赛山西省一等奖指导教师
- 3.2007 年度山西省优秀班主任
- 4.2009 年大学生数学建模竞赛山西赛区一等奖指导教师
- 5.2017 年在教育部高等学校统计类专业教学指导委员会和中国商业统计学会共同主办的“第七届全国大学生市场调查与分析大赛”山西赛区分赛中荣获三等奖。 (指导老师)
- 6.第 19 届山西省优秀学术论文三等奖 (2018)
- 7.大同市科学技术协会优秀学术论文二等奖 (2018)
- 8.第 17 届中国不确定系统年会不确定理论优秀论文奖 (2019)

社会服务

IEEE Transactions on Fuzzy Systems, Applied Mathematical Modelling, Applied Mathematics and Computation, Soft Computing, Fuzzy Optimization and Decision Making, Knowledge-based Systems, Journal of Ambient Intelligence and Humanized Computing, Journal of Uncertainty Analysis and Applications, International Journal for Uncertainty Quantification 等国际期刊的审稿人。

会议报告

1. Lookback options pricing for uncertain financial market. 37th National Conference on Uncertainty Theory, October 24-26, 2014. Tsinghua University.
2. Geometric average Asian option pricing for uncertain financial market. 38th National Conference on Uncertainty Theory, January 1-3, 2015. Shandong Youth University of Political Science.
3. Valuation of interest rate ceiling and floor in uncertain financial market. 39th National Conference on Uncertainty Theory, April 10-12, 2015. Nankai University.
4. Stock loan valuation under uncertain mean-reverting stock model. 13th Annual Conference on Uncertainty. July 25-29, 2015. Changchun, China.
5. Uncertain differential equation on manifold. 14th International Conference on Information and Management Sciences. August 4-9, 2015. Guiyang, China.
6. Pricing financial derivatives in uncertain financial market. 40th National Conference on Uncertainty Theory, October 1-3, 2015. Tsinghua University.
7. An uncertain partial differential equation model with applications in population analysis. The tenth National Conference of Intelligent Computing. April 28-May 1, 2016. Beijing Jiaotong University.
8. Uncertain population model with age-structure. Fourteenth Annual Conference on Uncertainty. July 26-30, 2016. Weinan, China
9. Pricing financial derivatives in uncertain financial market. 15th International Conference on Information and Management Sciences. August 3-8, 2016. Xining, China.
10. Uncertain logistic population model. 41st National Conference on Uncertainty Theory. November 11-13, 2016. Tsinghua University.
11. Uncertain population model. The eleventh National Conference of Intelligent Computing. March 24-27, 2017. Nanning, China.
12. Uncertain population model. The 42nd National Conference on Uncertainty Theory. May 12-14, 2017. Tianjin.
13. Uncertain population model. Fifteenth Annual Conference on Uncertainty. July 26-30, 2017. Fuzhou,
14. Uncertain predator-prey model. The 43rd National Conference on Uncertainty Theory. December 8-10, 2017. Tsinghua University..
15. Uncertain population model. The twelfth National Conference of Intelligent Computing. April 13-16, 2018. Shanghai, China.
16. Uncertain population model. Sixteenth Annual Conference on Uncertainty. July 27-31, 2018. Hangzhou, China.

17. Uncertain population model. 17th International Conference on Information and Management Sciences. August 4-10, 2018. Wuhan, China.
 18. Uncertain population model. The thirteenth National Conference of Intelligent Computing. May 3-6, 2019. Jinan, China.
 19. Uncertain population model. Seventeenth Annual Conference on Uncertainty. July 27-31, 2019. Huanggang, China.
 20. Uncertain population model. 18th International Conference on Information and Management Sciences. August 4-10, 2019. Lasha, China.
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