List of Research Publications

a. Statistical Papers Published in, or Accepted by, Refereed Journals
(Theory [T], Methodology [M] and Application [A])

[110] [TMA] Wang, K., Ling, C., Chen, Y., and **Zhang, Z.**, (2023), Spatio-temporal Joint Modelling on Moderate and Extreme Air Pollution in Spain, *Environmental and Ecological Statistics*.

[109] [MA] Huang, T., Cheng, S., Li, S. Z. and **Zhang, Z.**, (2023), High-dimensional Clustering onto Hamiltonian Cycle, *Proceedings of Machine Learning Research, Proceedings of the 40th International Conference on Machine Learning*, edited by Krause, A., Brunskill, E., Cho, K., Engelhardt, B., Sabato, S. and Scarlett, J., **202**, 13791–13813.

[108] [TMA] Liu, Y., Zhang, H., Xu, Y., Liu, Y. -Z., Al-Adra, D. P., Yeh, M.M., and **Zhang, Z.**, (2023), Five Critical Gene-based Biomarkers with Optimal Performance for Hepatocellular Carcinoma, *Cancer Informatics*,

[107] [TMA] Lin, H., Liu, L. X., and **Zhang, Z.**, (2023), Tail Risk Signal Detection through a Novel EGB2 Option Pricing Model, *Mathematics*, https://doi.org/10.3990/math11143194.

[106] [MA] Guo, C., Lanza, K., Li, D., Zhou, Y., Aunan, K., Loo, B. PY., Lee, J., Luo, B., Duan, X., Zhang, W., **Zhang, Z.**, Lin, S., Zhang, K. (2023), Impact of heat on all-cause and cause-specific mortality: A multi-city study in Texas, *Environmental Research*, https://doi.org/10.1016/j.envres.202

[105] [TMA] Feng, W. and **Zhang, Z.**. (2023), Currency exchange rate predictability: the new power of Bitcoin prices. *Journal of International Money and Finance*.

[104] [TMA] Lu, X. F., Sheng, K., **Zhang, Z.**. (2022), Forecasting VaR and ES using the joint regression combined forecasting model in the Chinese stock market. *International Journal of Emerging Markets*. DOI: 10.1108/IJOEM-06-2022-0941

[103] [TMA] Zhang, C. H., **Zhang, Z.**, Xu, M. Y., Peng, Z. (2022), Good and Bad Self-excitation: Asymmetric Self-exciting Jumps in Bitcoin Returns. *Economic Modeling*. DOI: https://doi.org/10.1016/j.eco

[102] [TMA] Teng, H. Y., **Zhang, Z.** (2022), Two-way Truncated Linear Regression Models with Extremely Thresholding Penalization. *Journal of the American Statistical Association*. https://doi.org/10.1080/01621459.2022.2147074

[101] [TMA] Feng, W and **Zhang, Z.** (2022), Risk-Weighted Cryptocurrency Indices. *Finance Research Letters*. https://doi.org/10.1016/j.frl.2022.103438

[100] [TMA] **Zhang, Z.** (2022), Genomic Transcriptome Benefits and Potential Harms of COVID-19 Vaccines Indicated from Optimized Genomic Biomarkers. *Vaccines*. 10(11), 1774; https://doi.org/10.3390/vaccines10111774.

[99] [TMA] **Zhang, Z.** (2022), Genomic Biomarker Heterogeneities between SARS-CoV-2 and COVID-19. *Vaccines*. 10(10), 1657; https://doi.org/10.3390/vaccines10101657.

[98] [TMA] **Zhang, Z.** (2022), The Existence of At Least Three Genomic Signature Patterns and At Least Seven Subtypes of COVID-19 and the End of the Disease. *Vaccines*. 10(5), 761; https://doi.org/10.3390/vaccines10050761.

[97] [TMA] Lin, H. and **Zhang, Z.** (2022), Extreme Co-movements between Infectious Disease Events and Crude Oil Futures Prices: from Extreme Value Analysis Perspective. *Energy Economics.* **110**, June 2022, 106054 https://doi.org/10.1016/j.eneco.2022.106054.

[96] [TMA] Lin, H. and **Zhang, Z.** (2022), The Impacts of Digital Finance Development on Household Income, Consumption, and Financial Asset Holding: An Extreme Value Analysis of China's Micro Data. *Personal and Ubiquitous Computing.* Jan 27:1-21. doi: 10.1007/s00779-022-01667-z. Epub ahead of print. PMID: 35103052; PMCID: PMC8791700..

[95] [TMA] **Zhang, Z.** (2022), Lift the Veil of Breast Cancers Using Four or Fewer Critical Genes. *Cancer Informatics*, **21**, 1-11, https://doi.org/10.1177/11769351221076360.

[94] [TMA] **Zhang, Z.** (2021), Functional Effects of Four or Fewer Critical Genes Linked to Lung Cancers and New Subtypes Detected by A New Machine Learning Classifier. *Journal of Clinical Trials.* **11**, S14 No: 1000001. https://www.longdom.org/open-access/functional-effects-of-four-or-fewer-critical-genes-linked-to-lung-cancers-and-new-subtypes-detected-by-a-new-machine-lea.html https://doi.org/10.1101/2021.10.08.463736

[93] [TMA] Teng, H. Y., **Zhang, Z.** (2021), Directly and Simultaneously Expressing Absolute and Relative Treatment Effects in Medical Data Models and Applications. *Entropy: Special issue – Statistical Methods for Medicine and Health Sciences.* **23**(11), 1517. https://doi.org/10.3390/e23111517

[92] [MA] Lin, H., Liu, LX, **Zhang, Z.** (2021), Hedging and Evaluating Tail Risks via Two Novel Options Based on Type II Extreme Value Distribution. *Symmetry.* **13**, 1630. https://doi.org/10.3390/sym13091630

[91] [MA] **Zhang, Z.** (2021), Five Critical Genes Related to Seven COVID-19 Subtypes: A Data Science Discovery. *Journal of Data Science.* **19**(1), 142–150. https://doi.org/10.6339/21-JDS1005

[90] [TM] **Zhang, Z.** (2021), Rejoinder of "On studying extreme values and systematic risks with nonlinear time series models and tail dependence measures". *Statistical Theory and Related Fields* **5**, 45-48. https://doi.org/10.1080/24754269.2021.1871710

[89] [TM] **Zhang, Z.** (2021), On studying extreme values and systematic risks with nonlinear time series models and tail dependence measures (with discussions). *Statistical Theory and Related Fields* **5**, 1-25. 10.1080/24754269.2020.1856590

[88] [TM] Cao, W. and **Zhang, Z.** (2021), New extreme value theory for maxima of maxima. *Statistical Theory and Related Fields.* **5** (3), 232-252. https://doi.org/10.1080/24754269.2020.1846115

[87] [TMA] Zhao, Z., Shi, P., **Zhang, Z.** (2022), Modeling multivariate time series with copula-linked univariate d-vines. *Journal of Business and Economic Statistics.* **402**, 690-704, DOI: 10.1080/07350015.2020.1859381

[86] [MA] Zhang, F. and **Zhang, Z.** (2020), The tail dependence of the carbon markets: The implication of portfolio management. *Plos One.* https://doi.org/10.1371/journal.pone.0238033 Published: August 28, 2020

[85] [TMA] Cui, Q., Xu, Y., **Zhang, Z.**, and Chan, V. (2021), Max-linear regression with regularization. *Journal of Econometrics*, **222**, 579-600. https://doi.org/10.1016/j.jeconom.2020.07.017.

6

[84] [MA] Guo, R., Zhang, C. and **Zhang, Z.** (2020), Maximum independent component analysis with application to EEG data. *Statistical Science* **35**, 145–157

[83] [TMA] Luo, Z., Guo, W., Liu, Q., and **Zhang, Z.** (2020), A hybrid model for financial time-series forecasting based on mixed methodologies. *Expert Systems.* https://doi.org/10.1111/exsy.12633 Accepted.

[82] [MA] Lu, X., Liu, K., Liang, X.S., **Zhang, Z.**, Cui, H. (2020), The Break Point-Dependent Causality between the Cryptocurrency and Emerging Stock Markets. *Economic Computation and Economic Cybernetics Studies and Research* **54**(4), DOI: 10.24818/18423264/54.4.20.13

[81] [TMA] Deng, L., Yu, M. and **Zhang, Z.** (2020), Statistical Learning of the Worst Regional Smog Extremes with Dynamic Conditional Modeling. *Atmosphere*, **11**, 665 doi:10.3390/atmos11060665

[80] [A] Deng, L. **Zhang, Z.** (2020), The Haze Extreme Co-movements in Beijing-Tianjin-Hebei Region and Its Extreme Dependence Pattern Recognitions. *Science Progress* **103**(2) https://doi.org/10.1177/0036850420916315

[79] [A] Watras, C., Teng, H. Y., Latzka, A., Meyer, M., and **Zhang, Z.** (2020), Near-decadal oscillation of water levels and mercury bioaccumulation in the Laurentian Great Lakes region. *Environmental Science & Technology Letters* https://dx.doi.org/10.1021/acs.estlett.9b00772

[78] [MA] Dong, H., Sun, Z., Fu, Y., Zhong, S., **Zhang, Z.** and Jiang, Y.-G. (2020), Extreme vocabulary learning. *Front. Comput. Sci.* 14, 146315. https://doi.org/10.1007/s11704-019-8249-3

[77] [TMA] Li, J. and **Zhang, Z.** (2019), Hierarchical time-varying mixed-effects models in high-dimensional time series and longitudinal data studies. *Journal of Nonparametric Statistics* https://doi.org/10.1080/10485252.2019.1629436

[76] [TMA] Chen, Y., Wang, Z. C., and **Zhang, Z.** (2019), Mark to market value at risk. *Journal of Econometrics.* **208**, 299-321. https://doi.org/10.1016/j.jeconom.2018.09.017

[75] [TMA] Zheng, H., Hao, J., Bai, M. and **Zhang, Z.** (2019), Valuation of Guaranteed Unitized Participating Life Insurance under MEGB2 Distribution. *Discrete Dynamics in Nature and Society*, **00**, xxx-xxx. https://doi.org/10.1155/2019/9439786

[74] [TMA] Yang, L., Frees, J. and **Zhang, Z.** (2020), Nonparametric Estimation of Copula Regression Models with Discrete Outcomes. *Journal of the American Statistical Association*, **115** 707-720. https://doi.org/10.1080/01621459.2018.1546586 DOI: 10.1080/01621459.2018.1546586.

[73] [TMA] Zhao, Z., **Zhang, Z.** and Chen, R. (2018), Modeling Maxima with Autoregressive Conditional Fréchet Model. *Journal of Econometrics.* **207**, 325-351.

[72] [TMA] Xie, Y., **Zhang, Z.**, Rathouz, P., and Barrett, B. (2019), Multivariate Semi-continuous Proportionally Constrained Two Part Fixed Effects Models and Applications. *Statistical Methods in Medical Research*, **28**, 3516-3533. https://doi.org/10.1177/0962280218807730.

[71] [MA] Feng, W., Wang, Y. and **Zhang, Z.** (2018), Can cryptocurrencies be a safe haven: a tail risk perspective analysis. *Applied Economics*, **50**(44), 4745-4762.

[70] [TMA] Mao, G. and **Zhang, Z.** (2018), Stochastic tail index model for high frequency financial data with Bayesian analysis. *Journal of Econometrics*, **205**, 470-487.

[69] [TMA] Cui, Q. and **Zhang, Z.** (2018), Max-linear competing factor models. *Journal of Business and Economic Statistics*, **36**, 62-74.
http://amstat.tandfonline.com/doi/full/10.1080/07350015.2015.1137761

[68] [TMA] Gao, S., Shi, L. and **Zhang, Z.** (2018), A Peak-over-threshold search method for global optimization. *Automatica*, **83**, 83-91.

[67] [TMA] Huang, H. X., and **Zhang, Z.** (2018), An intrinsic robust rank-one-approximation approach for currency portfolio optimization. *Quantitative Finance and Economics*, **2(1)** 160-189. doi: 10.3934/QFE.2018.1.160

[66] [TMA] Huang, H. and **Zhang, Z.** (2018), Virtual standard currency for approximating foreign exchange rates. *International Journal of Electronic Commerce.* **23**, 33-62.

[65] [MA] Zheng, H., Hao, J., Bai, M. and **Zhang, Z.** (2018), Valuation of guaranteed unitized participating life insurance under GEV distribution. *Statistics and Its Interface*, **11**, 603-614.

[64] [TMA] Zhao, Z., and **Zhang, Z.** (2018), Semi-parametric dynamic max-copula model for multivariate time series. *Journal of the Royal Statistical Society, Series B*, **80**, 409-432.
DOI: 10.1111/rssb.12256.

[63] [MA] Deng, L. and **Zhang, Z.** (2018), Assessing the features of extreme smog in China and the differentiated treatment strategy. *Proceedings of the Royal Society A*, **474**. DOI: 10.1098/rspa.2017.0511.

[62] [MA] Feng, W., Wang, Y. and **Zhang, Z.** (2018), Informed trading in the Bitcoin market. *Finance Research Letters*, **26**, 63-70.

[61] [TMA] **Zhang, Z.**, Zhang, C., and Cui, Q. (2017), Random threshold driven tail dependence measures with application to precipitation analysis. *Statistica Sinica*, **27**, 685-709.

[60] [TMA] Idowu, T. and **Zhang, Z.** (2017), An extended sparse max-linear moving model with application to high-frequency financial data. *Statistical Theorey and Related Fields*,**1**, 92-111.

[59] [MA] Deng, X. and **Zhang, Z.** (2017), Automatic multihorizons recognition for seismic data based on Kalman filter tracker. *IEEE Geoscience and Remote Sensing Letters*, **14**, 319-323.

[58] [TMA] Chen, M., Lian, Y. M., Chen, Z., and **Zhang, Z.** (2017), Sure explained variability and independence screening. *Journal of Nonparametric Statistics*, **29**, 849-883.
http://dx.doi.org/10.1080/10485252.2017.1375111

[57] Cheng, G.-H., **Zhang, Z.** and Zhang, B. (2017), Test for bandedness of high-dimensional precision matrices. *Journal of Nonparametric Statistics*, **29**, 884-902.
http://dx.doi.org/10.1080/10485252.2017.1375112.

[56] [TMA] Zhang, C. and **Zhang, Z.**(2017), Robust-BD Estimation and inference for general partially linear models. *Entropy*, **19(11)**, 625; https://doi.org/10.3390/e19110625.

[55] [A] Dorresteijn, P. M., Muller, D., Xie, Y, Zhang, Z. and Barrett, B. P. (2016), Validation of the Nasal Mucus Index, a novel measurement of acute respiratory infection severity. *American Journal of Rhinology & Alergy*, **30(5)**, 324-8. doi: 10.2500/ajra.2016.30.4337.

[54] [TMA] **Zhang, Z.** and Zhu, B. (2016), Copula structured M4 processes with application to high-frequency financial data. *Journal of Econometrics*, **194**, 231-241.

[53] [MA] Deng, X., **Zhang, Z.**, and Yang, D.-H. (2016), Seismic data deconvolution using Kalman filter based on a new system model. *Geophysics*, **81**, 31-42.

[52] [TM] Malinowski, A., Schlather, M., and **Zhang, Z.** (2016), Intrinsically weighted means and non-ergodic marked point processes. *Annals of the Institute of Statistical Mathematics*, **68**, 1-24.

[51] [TMA] Zhang, C.M., Chai, Y., Guo, X., Gao, M., Devilbiss, D.M. and **Zhang, Z.** (2016), Statistical learning of neuronal functional connectivity. *Technometrics*, **58**, 350-359.

[50] [MA] **Zhang, Z.**, Peng, L. and Idowu, T. (2015), Max-autoregressive and moving maxima models for modeling extremes. *Extreme Value Modeling and Risk Analysis: Methods and Applications*, Editors: Dipak Dey and Jun Yan. Chapman Hall/CRC.

[49] [A] Russell,D. C., Smith, T. L., Krahn, D. D., Graskamp, P., Singh, D., Kolden, G. G., Sigmund, H., **Zhang, Z.** (2015), Effects of cognitive behavioral stress management on negative mood and cardiac autonomic activity in ICD recipients. *Pacing and Clinical Electrophysiology*, **38(8)**, 951-65. doi: 10.1111/pace.12668.

[48] [TM] Malinowski, A., Schlather, M., and **Zhang, Z.** (2015), Marked point process adjusted tail dependence analysis for high-frequency financial data. *Statistics and Its Interface*, **8**, 109-122.

[47] [A] Henriquez, K, M, Hayney, M. S., Xie, Y., **Zhang, Z.**, and Barrett, B. (2015), Association of interleukin-8 and neutrophils with nasal symptom severity during acute respiratory infection. *Journal of Medical Virology*, **87**, 330-337.

[46] [TMA] Ma, Y., Zhang, W. G. , **Zhang, Z.**, and Xu, W. D. (2015), Stock market interactions driven by large declines. *Emerging Markets Finance and Trade*, **50**, Supp. 5, 159-171.

[45] [TMA] Ma, Y., **Zhang, Z.**, and Zhang, W. G., and Xu, W. D. (2015), Evaluating the default risk of bond portfolios with extreme value theory. *Computational Economics*, **45**, 647-668.

[44] [TMA] Zhang, C.M., Guo, X., Cheng, C. and **Zhang, Z.** (2014), Robust-BD estimation and inference for varying-dimensional general linear models. *Statistica Sinica*, **24**, 653–673.

[43] [MA] Cui, Q., Rohe, K., and **Zhang, Z.** (2013), Discussion on "Estimating the historical and future probabilities of large terrorist events" by A. Clauset and R. Woodard. *Annals of Applied Statistics*, **7**, 1891-1894.

[42] [TMA] Tang, R., Shao, J. and **Zhang, Z.** (2013), Sparse moving maxima models for tail dependence in multivariate financial time series. *Journal of Statistical Planning and Inference*, **143**, 882-895

[41] [TMA] Kunihama, T., Omori, Y., and **Zhang, Z.** (2012), Bayesian estimation and particle filter for max-stable processes. *Journal of Time Series Analysis*, **33**, 61-80.

[40] [TMA] Peng, L. and **Zhang, Z.** (2012), Extremes: spatial nonstationary statistical modeling. *Encyclopedia of Environmetrics* Second Edition in 2012 by John Wiley & Sons, Ltd. DOI: 10.1002/9780470057339.vnn016

[39] [TMA] Peng, L. and **Zhang, Z.** (2012), Statistical inference for tail dependence funcitons. *Encyclopedia of Environmetrics* Second Edition in 2012 by John Wiley & Sons, Ltd. DOI: 10.1002/9780470057339.vnn017

[38] [TMA] Shinki, K. and **Zhang, Z.** (2012), Asymptotic theory for fractionally integrated asymmetric power ARCH models. *Journal of Statistical Planning and Inference*, **142**, 2871-2890.

[37] [TMA] Wu, J., **Zhang, Z.** and Zhao, Y. (2012), Study of the tail dependence structure in global financial markets using extreme value theory. *Journal of Reviews on Global Economics*, **1**, 62-81.

[36] [TMA] Zheng, S., Shi, N-Z., and **Zhang, Z.** (2012), Generalized measures of correlation for asymmetry, nonlinearity and beyond. *the Journal of American Statistical Association*. **107**, 1239-1252. https://doi.org/10.1080/01621459.2012.710509

[35] [A] Barrett, B., Hayney, M. S., Muller, D., Rakel, D., Ward, A., Obasi, C., Brown, R., **Zhang, Z.**, Zgierska, A., Gern, J., West, R., Ewers, R., Barlow, S., Gassman, M., and Coe,C. L. (2012). Meditation or exercise for preventing acute respiratory infection: a randomized controlled trial. *Annals Of Family Medicine*, **10**, 337-346.

[34] [TMA] **Zhang, Z.**, Qi, Y., and Ma, X. W. (2011), Asymptotic independence of correlation coefficients with application to testing hypothesis of independence. *Electronic Journal of Statistics*, **5**, 342-372.

[33] [TMA] Naveau, P., **Zhang, Z.**, and Zhu, B. (2011), An Extension of Max Autoregressive Models. *Statistics and Its Interface*, **4**, 253-266.

[32] [TMA] Yang, X., Frees, J., and **Zhang, Z.** (2011), A generalized beta copula with applications in modeling multivariate long-tailed data. *Insurance: Mathematics and Economics*. **49**, 265-284.

[31] [MA] Zhang, C.M., **Zhang, Z.** and Chai, Y. (2011), Penalized Bregman divergence estimation via coordinate descent. *Journal of the Iranian Statistical Society*. **10**, 125–140. (special issue.)

[30] [A] Rakel, D., Barrett, B., **Zhang, Z.**, Hoeft, T., Chewning, B., Marchand,L., and Scheder, J. (2011), Perception of empathy in the therapeutic encounter: effects on the common cold. *Patient Education and Counseling*, **85(3)**, 390-7. doi: 10.1016/j.pec.2011.01.009.

[29] [TMA] **Zhang, Z.** and Smith, R.L. (2010), On the estimation and application of max-stable processes, *Journal of Statistical Planning and Inference*, **140**, 1135-1153.

[28] [MA] Zhang, C. and **Zhang, Z.** (2010), Regularized estimation of hemodynamic response function for fMRI data, *Statistics and Its Interface*, **3**, 15–32. (special issue on statistical issues in imaging analysis.)

[27] [TMA] **Zhang, Z.** (2009), On approximating max-stable processes and constructing extremal copula functions, *Statistical Inference for Stochastic Processes*, **12**, 89-114.

[26] [TMA] **Zhang, Z.** (2008a), Quotient correlation: a sample based alternative to Pearson's correlation, *Annals of Statistics*, **36**, 1007-1030.

[25] [TMA] **Zhang, Z.** (2008b), The estimation of M4 processes with geometric moving patterns, *Annals of the Institute of Statistical Mathematics*, **60**, 121-150.

[24] [MA] Gao, F., Xiong, C., Yan, Y., Yu, K. and **Zhang, Z.** (2008), Estimating optimum linear combination of multiple correlated diagnostic tests at a fixed specificity with Receiver Operating Characteristic Curves, *Journal of Data Science*, **6**, 1-11.

[23] [TM] Heffernan, J. E., Tawn, J. A., and **Zhang, Z.** (2007), Asymptotically (in)dependent multivariate maxima of moving maxima processes, *Extremes*, **10**, 57-82.

[22] [A] Barrett, B., Endrizzi, S., Andreoli, P., Barlow, S., and **Zhang, Z.** (2007), Evidence of benefit of common cold treatment: Professionals' opinions, *Wisconsin Medical Journal*, **106**, 473-480.

[21] [A] Barrett, B., Harahan, B., Brown, D. **Zhang, Z.**, and Brown, B. (2007), Sufficiently important difference for common cold: Severity reduction, *Annals of Family Medicine,* **5**, 216-223.

[20] [A] Zgierska, A., Brown, R., Zuelsdorff, M., Brown D., **Zhang, Z.**, and Fleming, M. F. (2007), Sleep quality and daytime sleepiness among chronic non-cancerous pain patients receiving long-term opioid therapy: a cross-sectional study, *Journal of Opioid Management*, **3**, 317-327.

[19] [MA] **Zhang, Z.** and Shinki, K. (2006), Extreme co-movements and extreme impacts in high frequency data in finance, *Journal of Banking and Finance*, **31**, 1399-1415. *Journal of Banking and Finance* is a top journal in the field of finance. A rank list of finance journals in 2005 can be viewed at `http://www.stat.wisc.edu/~zjz/Rank2005.pdf`.

[18] [TMA] **Zhang, Z.** and Huang, J. (2006), Extremal financial risk model and portfolio evaluation, *Computational Statistics and Data Analysis*, **51**, 2313-2338.

[17] [A] Pfau P. R., Perlman, S., Stanko, P., Frick, T., Gopal, D., Said, A., **Zhang, Z.** and Weigel T. (2006), The role and clinical value of EUS in a multimodality esophageal carcinoma staging program with CT and positron emission tomography, *Gastrointestinal Endoscopy*, **65**, P377-384.

[16] [TMA] **Zhang, Z.** (2005), A new class of tail-dependent time series models and its applications in financial time series, *Advances in Econometrics*, **20**(B), 323-358.

[15] [MA] Xiong, C., Yu, K., Gao, F., Yan, Y. and **Zhang, Z.** (2005), Statistical power and sample size determination for clinical trials with multiple primary endpoints-application to Alzheimer's disease, *Clinical Trials*, **2**, 387-393.

[14] [T] **Zhang, Z.** and Smith, R.L. (2004), The behavior of multivariate maxima of moving maxima processes, *Journal of Applied Probability*, **41**, 1113-1123.

[13] [MA] **Zhang, Z.** and Feng, Y.C. (1997), An approximate algorithm of generating variates and computing probabilities for nonuniform continuous statistical distributions, *Simulation*, **69**, 91-101. *Simulation* is a top journal in the field of computer simulation and industrial engineering.

[12] [TM] Shi, P.D. and **Zhang, Z.** (1995), Robust nonparametric regression based on L_1–norm and B-splines, *Systems Science and Mathematical Sciences*, **8**, 187-192.

(Other Papers Published in Related Fields: Industrial Engineering and Mathematics)

[11] **Zhang, Z.**, Zou, Z. H., and Feng, Y.C. (1997), Methods for implementing synchronization of common random numbers, (in Chinese), *Control and Decision*, **12**(2), 171-174.

[10] Huang, C.F. and **Zhang, Z.** (1997), Fuzzy simulation of production scheduling systems in aircraft manufacturing, *Acta Aeronautica et Astronautica Sinica*, **18**, 282-288.

[9] Zou, Z.H., **Zhang, Z.** and Feng, Y.C. (1997), Estimating the mean performance measure in simulation output, (in Chinese), *Systems Engineering Theory & Practice*, **17**(8), 26-30.

[8] Zou, Z.H., **Zhang, Z.** and Feng, Y.C. (1997), Bootstrap estimators of confidence intervals in simulation output analysis (in Chinese), *Systems Engineering Theory & Practice*, **17**(2), 14-17.

[7] Huo, G. R., **Zhang, Z.**, Duan, X. J., and Feng, Y. C. (1996), Studies of a central mail transport hub by system simulation. *Journal of Zhengzhou Aeronautical Industrial Management* (in Chinese), **14**, 9-12.

[6] **Zhang, Z.**, Xu, W.J. and Duan, X.J. (1996), Modeling and analysis of civil airline performance by using computer simulation, *Civil Aviation Economics and Technology* (in Chinese), **1**, 44-55.

[5] Zou, Z.H., **Zhang, Z.** and Feng, Y.C. (1996), Bayesian estimation other than means from simulation output (in Chinese), *Journal of Beijing University of Aeronautics and Astronautics*, **22**(5), 612-617.

[4] **Zhang, Z.**, Zou, Z.H., and Feng, Y.C. (1995), Application and development of variance reduction techniques in stochastic system simulation (in Chinese), *Computer Simulation*, **4**:34-42.

[3] **Zhang, Z.**, Zou, Z.H. and Feng, Y.C. (1995), Selection of random number generators for simulation, *Journal of Xidian University* (in Chinese), **22**(36), 26-33.

[2] Zhang, C.M., Yang, Z.Q. and **Zhang, Z.** (1995), Monte-Carlo method and its applications implemented on JN-3 parallel computer, *Journal of Xidian University* (in Chinese), vol. **22**(36), 21-25.

[1] **Zhang, Z.**, Yang, Z.Q. and Zhang, C.M. (1994), Monotone piecewise curve fitting algorithms, (*International*) *Journal of Computational Mathematics*, vol. **12**(2), 163-172.