

RESUME

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Professor Zong-Xiao Yang received his BSc in Machine Design from Luoyang Institute of Technology, China, in 1981, MSc in Mechanical Engineering from University of Science and Technology Beijing, China, in 1987, and PhD in Systems Science from Okayama University, Japan, in 1996. He is the founder and director of the Institute of Systems Science and Engineering, Henan University of Science and Technology, where he is a full professor in 2004. And is the founder and director of Luoyang Key Laboratory of the Wind Power Systems Simulation Technology in 2012, which became a Henan Engineering Laboratory of Wind Power Systems in 2013. His research interests include system safety assessment methodology for process plants, system analysis and integration for system shortest path programming, and systematic behaviour of vertical axial wind turbine generation system. He is the international program committee member and/or session chairs of IEEE International Conference on Networking, Sensing and Control between 2008 and 2016, and one of general chairs and/or the special session chair of International Conference on Advanced Mechatronic Systems between 2011 and 2015.

Journal paper lists (partial):

1. **ZX Yang**, LX Hao, BB Yang, An Energy Storage Strategy With Two-Parameter Controller and Buffer Capacitor for Off-Grid Type Wind Power System, Power System Technology, Vol.38, No.5, pp.1257-1263, 2014, **EI: 20142117742768**
2. **ZX Yang**, L Song, CY Zhang, C Li, XB Yuan, Mathematical Safety Assessment Approaches for Thermal Power Plants, Mathematical Problems in Engineering, Vol.2014, No.2014, pp.1-13, 2014, **SCI: 000336138700001**, **EI: 20142417814788**
3. LB Wang, **ZX Yang**, Magnetic Simulation for Outer-rotor Permanent-magnet Synchronous Generators, MICROMOTOR, Vol.48, No.8, pp.10-14, 2013
4. **ZX Yang**, XY Jia, JY Hao, YP Gao, Geometry-Experiment Algorithm for Steiner Minimal Tree Problem, Journal of Applied Mathematics, No. 367107, 2013, **SCI: 000317505100001**
5. **ZX Yang**, T Xiao, L Song, GQ Dong, Expressway event management expert system based on ontology and rule reasoning, Advanced Materials Research, Vol.601, pp.361-368, 2013, **EI: 20130115865049**
6. L Song, **ZX Yang***, HH Yang, SQ Hou, Experimental research on performance of vertical-axis three-hastate wind wheel, International Journal of Advanced Mechatronic Systems, Vol.3, Nos.5/6, pp.365-374, 2011
7. **ZX Yang**, ZJ Zhang, Hierarchical Network-Based Safety Assessment Decision Support System for Thermal Power Plants, International Journal of Innovative Computing Information and Control, Vol.6, No.7, pp. 2955-2964, 2010, **SCI: 000279829800009**
8. **ZX Yang**, YY Zheng, JX Xue, Development of automatic fault tree synthesis system using decision matrix, International Journal of Production Economics, Vol.121, No.1, pp. 49-56, 2009, **SCI: 000270622600006**
9. **ZX Yang**, YP Gao, CY Cheng, ZQ Feng, ZJ Zhang, A Visualization approach for the Steiner minimal tree problem, Systems Engineering-Theory and Practice, Vol.28, No.7, pp.173-178, 2008, **EI: 20083411474639**

Conference paper lists (partial):

1. DL Song, **ZX Yang***, XM Li, GG Wu, J Wang, Design, simulation and optimization of a novel permanent magnetic driver for vertical axis wind turbine, Proceedings of 2015 IEEE International Conference on

- Networking Sensing and Control (ICNSC 2015), April 9-11, pp.175-179, Taipei, Taiwan, 2015, **EI:** 20153701270266
2. JY Zheng, **ZX Yang***, GG Wu, XM Li, J Wang, FTA-SVM-based fault recognition for vehicle engine, Proceedings of 2015 IEEE International Conference on Networking Sensing and Control (ICNSC 2015), April 9-11, pp. 180-184, Taipei, Taiwan, 2015, **EI:** 20153701270267
 3. GQ Dong, **ZX Yang***, L Song, K Ye, Global shortest path visualization approach with obstructions, Proceedings of 2014 International Conference on Advanced Mechatronic Systems (ICAMechS 2014), August 10-12, pp. 393-397, Kumamoto, Japan, 2014, **EI:** 201443116332
 4. HK Dai, **ZX Yang***, L Song, Mathematical Modeling for H-Type Vertical Axis Wind Turbine, Proceedings of 2014 IEEE International Conference on Networking Sensing and Control (ICNSC 2014), April 7-9, pp. 695-700, Miami, FL, USA, 2014, **EI:** 20142517850200
 5. YP Zhu, **ZX Yang***, AQ Si, L Song, Maximum Power Point Tracking Algorithm for Wind Power Conversion System, Proceedings of IEEE ICNSC 2014, April 7-9, pp. 602-606, Miami, FL, USA, 2014, **EI:** 20142517850184
 6. TT Wang, **ZX Yang***, LX Hao, MY Li, YF Wu, Research of Control Recipe Modeling for System Shortest Path Planning, Proceedings of ICAMechS 2013, September 25-27, pp.168-173, Luoyang, 2013, **CPCIS:** 000330345600033
 7. GQ Dong, **ZX Yang***, L Song, RT Deng, Development of Wind Permanent-magnet Generator Experimental Platform, Proceedings of ICAMechS 2013, September 25-27, pp.187-190, Luoyang, 2013, **CPCIS:** 000330345600037
 8. MY Li, **ZX Yang***, LX Hao, HK Dai, A Hierarchical Planning Algorithm based on Network Topology Analysis for Minimal Steiner Tree Problems, Proceedings of ICAMechS 2013, September 25-27, pp.683-686, Luoyang, 2013, **CPCIS:** 000330345600130
 9. L Song, **ZX Yang***, RT Deng, XG Yang, Performance and Structure Optimization for a New Type of Vertical Axis Wind Turbine, Proceedings of ICAMechS 2013, September 25-27, pp.687-692, Luoyang, 2013, **CPCIS:** 000330345 600131
 10. YP Gao, **ZX Yang***, An Artificial Immune Algorithm for Minimal Steiner Tree Problems, Proceedings of ICAMechS 2013, September 25-27, pp.693-697, Luoyang, 2013, **CPCIS:** 000330345600132
 11. LX Hao, **ZX Yang***, MY Li, P Wang, GQ Dong, An Energy Storage Strategy with Two-parameter Controller and Buffercapacitor for Windmill Generator, Proceedings of ICAMechS 2013, September 25-27, pp.698-703, Luoyang, 2013, **CPCIS:** 000330345600133
 12. LX Hao, **ZX Yang***, AQ Si, YP Zhu, A Voltage Controller for Wind Turbine Generator, Proceedings of IEEE ICNSC 2013, April 10-12, pp.925-930, Paris, 2013, **CPCIS:** 000326863700159
 13. HH Yang, **ZX Yang***, L Song, LX Hao, MY Li, Computational fluid dynamic analysis for three-hastate vertical axis wind wheel, Proceedings of ICAMechS 2012, September 18-22, pp.487-491, Tokyo, 2012, **EI:** 20124815721978
 14. HH Yang, **ZX Yang***, L Song, GW You, Numerical Simulation of the Two-dimensional Flow-field for Three-hastate Vertical Axis Wind Wheel, Proceedings of IEEE ICNSC 2012, April 11-14, pp.228-232, Beijing, 2012, **EI:** 20122715205527
 15. LB Wang, **ZX Yang***, L Song, Power Efficiency of Outer-rotor Permanent Magnet Wind Generator, Proceedings of IEEE ICNSC 2012, April 11-14, pp.222-227, Beijing, 2012, **EI:** 20122715205526
 16. LL Xu, **ZX Yang***, YL Shang, TT Wang, The longest side elimination solution for solving Steiner minimum tree problems, Proceedings of ICAMechS 2011, August 11-13, pp.245-249, Zhengzhou, 2011, **EI:** 20114114418454
 17. L Song, **ZX Yang***, GQ Dong, SG Yu, WL Yang, Construction of expressway emergency rescue information management system using Browser/Server framework, Proceedings of IEEE ICNSC 2011, April 11-13, pp.341-348, Delft, 2011, **EI:** 20112814127686
 18. Y Kun, **ZX Yang***, L Song, LL Xu, Global shortest path programming using genetic algorithms, Proceedings of ICCRD 2011, March 11-15, pp.75-79, Shanghai, 2011, **EI:** 20112214015848