ZHIMING ZHONG

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University of Arizona, AZ, USA (520)-243-3110

EDUCATION

University of Arizona *Aug 2020 - Present*
PhD Student of Systems and Industrial Engineering
Advisor: Neng Fan

North China Electric Power University *Sep 2017 - June 2020*
Master of Electric Technical Economics and Management
Thesis: Joint Optimization of Electricity Consumption Plan and Electricity Market Transaction for Enegy-Intensitive Production Company
Bachelor of Business Administration *Sep 2013 - June 2017*

RESEARCH INTERESTS

Optimization Theory: Stochastic optimization, robust optimization, large-scale optimization
Application: Power systems planning and operations, renewable energy integration, energy policy, energy economics and management, sustainable operations management

SELECTED PAPERS

Zhong, Z., Fan, N., & Wu, L. (2021). A Hybrid Robust-Stochastic Optimization Approach for Day-Ahead Scheduling of Cascaded Hydroelectric Systems in Restructured Electricity Market. Submitted to *European Journal of Operational Research*, under revision.

Zhong, Z., Fan, N., & Wu, L. (2021). Robust Optimization for the Day-Ahead scheduling of Cascaded Hydroelectric Systems. Submitted to *IEEE PES General Meeting 2022*.

Zhong, Z., & Li, X. (2021) Emission Reduction and Economic Benefits of the Retirement and Technology Upgrade of Coal-Fired Units-A Robust Generation Expansion Planning Approach. *Chinese Journal of Management Science*, 29(4), 16-25.

Zhong, Z., Zhang, Y., Shen, H., & Li, X. (2020). Optimal Planning of Distributed Photovoltaic Generation for the Traction Power Supply System of High-Speed Railway. *Journal of Cleaner Production*, 263, 121394.

Zhong, Z., Li, X., Liu, X., & Lau, W. (2019). Opportunity Cost Management in Project Portfolio Selection with Divisibility. *Journal of the Operational Research Society*, 70(7), 1164-1178.

Li, X., **Zhong, Z.**, & Yan, J. (2019). Flexibility Reformation Planning of Thermal Power Units with Large-scale Integration of Wind Power. *Automation of Electric Power Systems*, 43(3), 51-57. (Best paper in the special issue "Large-Scale Integration of Renewable Energy Generation into Power Systems")

Li, X., **Zhong, Z.**, Zhang, Y., & Wang, Y. (2017). Uncertain Mean-Variance Model for Project Portfolio Selection Problem with Divisibility. *Journal of Intelligent & Fuzzy Systems*, 32(6), 4513-4522.

RESEARCH EXPERIENCE

Graduate Research Assistant: Exploring Multidimensional Spatial-Temporal Hydropower Operational Flexibilities by Modeling and Optimizing Water-Constrained Cascading Hydroelectric Systems, **U.S. Department of Energy's Project** *June 2020 - Present*

Graduate Research Assistant: Dynamic Multi-project Portfolio Selection and Its Robust Optimization Considering the Synergy and Competition among Projects, **National Natural Science Foundation of China** *Sep 2017 - June 2020*

AWARDS

Third Place of SIE PhD Student Poster Competition *Nov 2021*

Outstanding Graduate Student, Beijing **(Top 5% master student in Beijing)** *June 2020*

Outstanding Master Thesis Award, North China Electric Power University *June 2020*
(Top 5% master thesis in North China Electric Power University)

National Scholarship for Graduate Student, China's Ministry of Education *June 2020*
(Top 1% graduate student in North China Electric Power University)

First Class Outstanding Master Student Fellowship, North China Electric Power University *2017-2020*
(Top 5% master student in North China Electric Power University, being awarded for consecutive 3 years)

Outstanding Senior Scholar Award, Chinese Society of Optimization, Overall Planning and Economical Mathematics (SCOPE), *2017-2018*
(Top 5% senior presenters in SCOPE annual meeting, being awarded for consecutive 2 years)

Honorable Mentioned Award in International Mathematical Modeling Contest *Feb 2016*

First Class Award of National Mathematical Modeling Contest of China *Sep 2015*
(Top 10% team in Beijing)

ACADEMIC SERVICES

Professional Society Service

Reviewer, Energy Systems *2020 - Present*
Reviewer, Journal of Cleaner Production *2020 - Present*
Reviewer, Optimization Letters *2020 - Present*

University-Related Service

Student Director, Institution of Electricity Management and Optimization, North China Electric Power University
Sep 2017 - June 2020