

Zhiqiang Liao

Department of Information and Service Management
Aalto University School of Business
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CONTACT

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EDUCATION

Aalto University 2021 - present
Doctoral Candidate in Management Science
School of Business, Department of Information and Service Management
Supervisors: Timo Kuosmanen; Pekka Malo

Sichuan University 2018 - 2021
M.S. in Industrial Engineering
School of Business

Chengdu University of Technology 2014 - 2018
B.S. in Industrial Engineering
School of Engineering

PUBLISHED WORK

Zhiqiang Liao, Sheng Dai, & Timo Kuosmanen (2024). Convex support vector regression. *European Journal of Operational Research*, 313(3), 858-870.

Zhiqiang Liao, Huchang Liao, & Xinli Zhang (2023). A contextual Choquet integral-based preference learning model considering both criteria interactions and the compromise effects of decision-makers. *Expert Systems with Applications*, 213.

Zhiqiang Liao, Huchang Liao & Benjamin Lev (2022). Compromise solutions for stochastic multicriteria acceptability analysis with uncertain preferences and nonmonotonic criteria. *International Transactions in Operational Research*, 29(6), 3737–3757.

Zhiqiang Liao, Huchang Liao, Ming Tang, et al (2020). A Choquet integral-based hesitant fuzzy gained and lost dominance score method for multi-criteria group decision making considering the risk preferences of experts: Case study of higher business education evaluation. *Information Fusion*, 62, 121-133.

Zhiqiang Liao, Huchang Liao, Xunjie Gou, et al (2019). A hesitant fuzzy linguistic Choquetintegral-based MULTI-MOORA method for multiple criteria decision making and its application in talent selection. *Economic Computation and Economic Cybernetics Studies and Research*, 53(2), 113-130.

WORKING PAPERS

Zhiqiang Liao (2024). Variable selection in convex nonparametric least squares via structured Lasso penalty: An application to the Swedish electricity market. Available at <https://arxiv.org/abs/2409.01911>

Zhiqiang Liao, Sheng Dai, Eunji Lim, & Timo Kuosmanen (2024). Overfitting reduction in convex regression. Available at <https://arxiv.org/abs/2404.09528>.

SUPERVISING	Thesis advisor	
	1. Kalle Laaksonen. Aalto master student in information and service management. (05.2022 - 08.2022)	
	Thesis examiner	
	1. Hanna Rae. Aalto master student in information and service management. (11.2021)	
TEACHING	30E03500: Capstone: Data Science for Business II	
	Aalto University. TA. Fall 2023, 2024	
	30C00200: Econometrics	
	Aalto University. TA. Spring 2022	
	ISM-E5001: Master's Thesis Seminar	
	Aalto University. TA. 2022-2024	
RESEARCH GRANTS	Liikesivistysrahasto (€13,000)	Jan 2024
	Jenny and Antti Wihuri Foundation (€15,000)	Oct 2023
	HSE Foundation (€13,000)	June 2023
	Jenny and Antti Wihuri Foundation (€12,000)	Oct 2022
	Liikesivistysrahasto (€12,000)	Sept 2021
AWARDS & HONORS	Best Student Paper Award at ICBEM conference	2024
	Recognition Award for Quality Publications at Aalto University	2023
	Outstanding Graduates of Sichuan University	2021
	Sichuan University First Class Scholarship	2018
INVITED TALKS	EcoSta, Beijing, 2024. <i>Variable selection in convex nonparametric least squares via structured Lasso.</i>	
	ICBEM, New Taipei City, 2024. <i>Variable selection in convex nonparametric least squares via structured Lasso.</i>	
	POMS-HK, Hong Kong SAR, 2024. <i>Overfitting reduction in convex regression.</i>	
	Infors Annual Meeting, Phoenix, 2023. Session chair of “The Intersection of Optimization and Learning”.	
	FORS50, Jyväskylä, 2023. <i>Convex support vector regression.</i>	
	IFOR2023, Santiago, 2023. <i>The overfitting problem in convex regression.</i>	
	EURO, Espoo, 2022. <i>Utilizing machine learning in operations research: a support vector regression-based method.</i>	