

He (River) HUANG

PERSONAL DATA

PHONE: +41 76 798 65 88
EMAIL: he.huang@vub.be

EXPERIENCE

- 2023 - Now Scientist, **Paul Scherrer Institut**, Villigen, Switzerland
- 2023 - Now Researcher, **Vrije Universiteit Brussel**, Brussels, Belgium
- 2022 - 2023 Postdoctoral researcher, **Vrije Universiteit Brussel**, Brussels, Belgium
- 2021 - Now Editor, **EURO Working Group on MCDA (EWG-MCDA)**
- 2021 - Now Editor, **International Society on Multiple Criteria Decision Making (MCDM)**

PUBLICATIONS

1. He Huang and Sajid Siraj. Quantifying and reducing the complexity of multi-line charts as a visual aid in multi-criteria decision-making. *Annals of Operations Research*, pages 1–25, 2024
2. He Huang and Peter Burgherr. Mcda calculator: A streamlined decision support system for multi-criteria decision analysis. In *International Conference on Decision Support System Technology*, pages 31–45. Springer, 2024
3. He Huang. Robust stakeholder-based group-decision making framework: The multi-actor multi-criteria analysis (mamca) with the integration of best-worst method (bwm). In Jafar Rezaei, Matteo Brunelli, and Majid Mohammadi, editors, *Advances in Best-Worst Method*, pages 15–31, Cham, 2023. Springer Nature Switzerland
4. He Huang, Shiqi Sun, Lina Liu, Koen Mommens, and Cathy Macharis. Mamcabm: A data-driven stakeholder-based decision-support system that considers uncertainties. In *Decision Support Systems XIII. Decision Support Systems in An Uncertain World: The Contribution of Digital Twins: 9th International Conference on Decision Support System Technology, ICDSST 2023, Albi, France, May 30–June 1, 2023, Proceedings*, pages 80–96. Springer, 2023
5. He Huang, Rocsildes Canoy, Nicolas Brusselaers, and Geert Te Boveldt. Criteria preprocessing in multi-actor multi-criteria analysis. *Journal of Multi-Criteria Decision Analysis*, 2023
6. Nicolas Brusselaers, He Huang, Cathy Macharis, and K Mommens. A gps-based approach to measure the environmental impact of construction-related hgv traffic on city level. *Environmental Impact Assessment Review*, 98:106955, 2023
7. He Huang, Koen Mommens, Philippe Lebeau, and Cathy Macharis. The multi-actor multi-criteria analysis (mamca) for mass-participation decision making. In *Decision Support Systems XI: Decision Support Systems, Analytics and Technologies in Response to Global Crisis Management: 7th International Conference on Decision Support System Technology, ICDSST 2021, Loughborough, UK, May 26–28, 2021, Proceedings*, pages 3–17. Springer, 2021
8. He Huang, Yves De Smet, Cathy Macharis, and Nguyen Anh Vu Doan. Collaborative decision-making in sustainable mobility: identifying possible consensuses in the multi-

actor multi-criteria analysis based on inverse mixed-integer linear optimization. *International Journal of Sustainable Development & World Ecology*, 28(1):64–74, 2021

9. He Huang, Philippe Lebeau, and Cathy Macharis. The multi-actor multi-criteria analysis (mamca): new software and new visualizations. In *Decision Support Systems X: Cognitive Decision Support Systems and Technologies: 6th International Conference on Decision Support System Technology, ICDSST 2020, Zaragoza, Spain, May 27–29, 2020, Proceedings 6*, pages 43–56. Springer, 2020
10. Sheida Hadavi, Heleen Buldeo Rai, Sara Verlinde, He Huang, Cathy Macharis, and Tias Guns. Analyzing passenger and freight vehicle movements from automatic-number plate recognition camera data. *European Transport Research Review*, 12(1):1–17, 2020

SOFTWARE DEVELOPMENT

- | | |
|------------|---|
| 2023 -2024 | Webapp Development at PAUL SCHERRER INSTITUT
Design and develop the MCDA Calculator |
| 2018 -2020 | Webapp Development at VRIJE UNIVERSITEIT BRUSSEL
Design and develop the new MAMCA software |

EDUCATION

- | | |
|------------|---|
| 2018 -2022 | PhD in HUMAN SCIENCE, Vrije Universiteit Brussel , Brussels, Belgium
Major: Applied Economics
Title of the PhD research: "Stakeholder involvement: a Participatory tool" |
| 2017 -2018 | Master of Science in ELECTRONICS AND ICT, KU LEUVEN , Leuven, Belgium
Major: Internet Computing |
| 2015 -2017 | Bachelor of Science in ENGINEERING, KU LEUVEN , Leuven, Belgium
Major: Electronics Engineering |
| 2013 -2017 | Bachelor of Science in Southwest of Jiaotong University , Sichuan, China
Major: Vehicle Engineering |