

He (River) HUANG

PERSONAL DATA

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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. 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
2. 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, ICDSSST 2023, Albi, France, May 30–June 1, 2023, Proceedings*, pages 80–96. Springer, 2023
3. 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
4. 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
5. 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, ICDSSST 2021, Loughborough, UK, May 26–28, 2021, Proceedings*, pages 3–17. Springer, 2021
6. 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
7. 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, ICDSSST 2020, Zaragoza, Spain, May 27–29, 2020, Proceedings 6*, pages 43–56. Springer, 2020

8. 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

- 2018 -2020 Webapp Development at **VRIJE UNIVERSITEIT BRUSSEL**
Design and develop the new **MAMCA** software
Design and develop the new **Multi-Actor Multi-Criteria Analysis** software with **MERN** stack.

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