

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 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
2. 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
3. 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
4. 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
5. 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
6. 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
7. 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
8. He Huang, Philippe Lebeau, and Cathy Macharis. The multi-actor multi-criteria analysis (mamca): new software and new visualizations. In *Decision Support Systems X: Cogni-*

tive 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

9. 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

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| 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

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| 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 |