# He Huang

## Personal Data

| | |
|---|---|
| Phone: | +32 483 528797 |
| email: | he.huang@vub.be |

## 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

## Experience

**2022 -Now**    Postdoctoral researcher, **Vrije Universiteit Brussel**, Brussels, Belgium

Postdoctoral Researcher at Vrije Universiteit Brussel, MOBILISE research group, specializing in the fields of Multiple Criteria Decision Making (MCDM), Group Decision Making, and Optimization.

**2021 -Now**    Editor, **EURO Working Group on MCDA (EWG-MCDA)**

**2021 -Now**    Editor, **International Society on Multiple Criteria Decision Making (MCDM)**

Permanent collaborator of the EURO working group on Multiple Criteria Decision Aiding and Internation society on MCDM. Responsible for editing the "Article Harvest" section in the newsletters of both the working group and the society.

## Publications

1. 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

2. 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

3. 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

4. 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

5. 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

6. 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

7. 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

| 2019 | Webapp Development at Vrije Universiteit Brussel |
| --- | --- |
| | *D*esign and develop the new **MAMCA** software |
| | Design and develop the new **Multi-Actor Multi-Criteria Analysis** software with **MERN** stack. |

## Unpublished conference presentation

1. He Huang, Shiqi Sun, and Cathy Macharis. Mass-participation, sustainability and uncertainty issues in decision-making process in regional development. In *2nd Global Conference on Regional Development*, 2023

2. He Huang, Geert Te Boveldt, and Cathy Macharis. A criteria pre-processing framework in the multi-actor multi-criteria analysis. In *32nd European Conference On Operational Research*, 2022

3. He Huang, Geert Te Boveldt, and Cathy Macharis. Priority-based multi-actor multi-criteria decision making. In *26 th International Conference on Multiple Criteria Decision Making*, 2022

4. He Huang. Involve multiple stakeholder groups to reach a sustainable consensus in mobility projects. In *The meeting of the EURO Working Group on Multiple Criteria Decision Aiding*, 2022

5. He Huang and Cathy Macharis. Integrating socio-demographic profiles into multi-actor multi-criteria analysis: A case study on university covid-19 policy evaluation. In *22nd Conference of the International Federation of Operational Research Societies*, 2021

6. He Huang, Yves De Smet, and Cathy Macharis. Data visualization for reaching consensus in the multi-actor multi-criteria analysis. In *31st European Conference On Operational Research*, 2021

7. He Huang, Cathy Macharis, Yves De Smet, and Anh Vu Doan Nguyen. A method of reaching consensus with the multi-actor multi-criteria analysis (mamca) methodology. In *25th International Conference on Multiple Criteria Decision Making*, 2019