

He HUANG

PERSONAL DATA

PHONE: +32 483 528797
EMAIL: he.huang@vub.be

EDUCATION

- 2018 -Now 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
Thesis: "Motivational design for self-assessment and tele-monitoring in older adults"
- 2015 -2017 Bachelor of Science in ENGINEERING TECHNOLOGY, **KU LEUVEN**, Leuven, Belgium
Major: Electronics Engineering

ENGINEERING EXPERIENCE

- 2019 | 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.
- 2018 | Web Application Design of Master Thesis at KU LEUVEN
Design based on MERN stack
An online platform will be developed to fill out self-assessments and review sensor data. **MongoDB, Express, React, Node.js** are implemented to visualize and interact with the sensor data. The main points are data visualization and user-centered design.

PUBLICATIONS

1. 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
2. He Huang, Koen Mommens, Philippe Lebeau, and Cathy Macharis. The multi-actor multi-criteria analysis (mamca) for mass-participation decision making. In *International Conference on Decision Support System Technology*, pages 3–17. Springer, 2021
3. 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
4. He Huang, Philippe Lebeau, and Cathy Macharis. The multi-actor multi-criteria analysis (mamca): New software and new visualizations. In *International Conference on Decision Support System Technology*, pages 43–56. Springer, 2020
5. 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

COMPUTER SKILLS

Python, R, JavaScript, SQL, MATLAB, C++, C, Java, PHP