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Post-doctoral scholarship
MOBI - Electromobility Research Centre
Electrical Engineering and Power Electronics
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Employment

MOBI - Electromobility Research Centre

Vrije Universiteit Brussel
Brussels, Belgium
1 Jan 2023 → present

Post-doctoral scholarship

Electrical Engineering and Power Electronics
Vrije Universiteit Brussel
Brussels, Belgium
15 Nov 2022 → 14 Nov 2025

Research outputs

Life cycle assessment of future energy system flexibility – a methodological framework applied to Belgium

Huber, D., Lavigne Philippot, M., Felice, A., Putratama, M. A., Coosemans, T. & Messagie, M., 9 May 2024, (Unpublished)
p. 1-2. 2 p.

Flexibility Valorization in Energy Communities: Grid Constraints Impact and Mitigation

Putratama, M. A., Cleenwerck, R., Desmet, J., Messagie, M. & Coosemans, T., 2024, *Proceedings of 2023 IEEE PES Innovative Smart Grid Technologies Europe, ISGT EUROPE 2023*. Grenoble: IEEE, p. 1-5 5 p. (IEEE PES Innovative Smart Grid Technologies Conference Europe).

An adaptive safety layer with hard constraints for safe reinforcement learning in multi-energy management systems

Ceusters, G., Putratama, M. A., Franke, R., Nowé, A. & Messagie, M., Dec 2023, In: *Sustainable Energy, Grids and Networks*. 36, 2023, 14 p., 101202.

Smart Meter-Based Re-Phasing for Voltage Imbalance Enhancement Through Topology Reconstruction

Cleenwerck, R., Parys, W., Putratama, M. A., Desmet, J. & Coosemans, T., 2023, *Proceedings of 2023 IEEE PES Innovative Smart Grid Technologies Europe, ISGT EUROPE 2023*. Grenoble: IEEE, 5 p. (IEEE PES Innovative Smart Grid Technologies Conference Europe).

Activities

Life cycle assessment of future energy system flexibility – a methodological framework applied to Belgium

Dominik Huber (Speaker), Maeva Lavigne Philippot (Contributor), Alex Felice (Contributor), Muhammad Andy Putratama (Contributor), Thierry Coosemans (Contributor) & Maarten Messagie (Contributor)
5 May 2024 → 9 May 2024

Awards

Projects

FOD137: ECOsystem to leverage local FLEXibility from multi-energy and e-mobility assets for grid balancing and securing energy supply

Message, M., Coosemans, T., Arapoglou, S., Putratama, M. A., Adam-Christiaan, V. R. & Vranckx, A.
1/11/22 → 31/10/25

OZR4309: OZR opvangmandaat post doc Muhammad Andy Putratama

Coosemans, T. & Putratama, M. A.
1/11/24 → 31/10/25