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Doctoral scholarship
MOBI - Electromobility research centre
Faculty of Engineering
Electrical Engineering and Power Electronics
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Employment

MOBI - Electromobility research centre

Vrije Universiteit Brussel
Brussels, Belgium
4 May 2020 → present

PhD, Faculty of Engineering

Vrije Universiteit Brussel
Brussels, Belgium
7 Jan 2020 → present

Doctoral scholarship

Electrical Engineering and Power Electronics
Vrije Universiteit Brussel
Brussels, Belgium
1 Jan 2020 → 30 Jun 2024

Research outputs

Modeling the behavior of an autonomous shuttle for the evaluation of last-mile solutions

Hesami, S., De Cauwer, C., Rombaut, E., Vanhaverbeke, L. & Coosemans, T., 13 Dec 2023, In: *Transportation Research Procedia*. 72, p. 3379-3386 8 p.

Dynamic Pro-Active Eco-Driving Control Framework for Energy-Efficient Autonomous Electric Mobility

Hesami, S., Vafaeipour, M., De Cauwer, C., Rombaut, E., Vanhaverbeke, L. & Coosemans, T., 8 Sep 2023, In: *Energies*. 16, 18, 19 p., 6495.

Modeling the behavior of an autonomous shuttle for the evaluation of last-mile solutions

Hesami, S., De Cauwer, C., Rombaut, E., Vanhaverbeke, L. & Coosemans, T., 31 Mar 2023, (Unpublished).

Energy-Optimal Speed Control for Autonomous Electric Vehicles Up- and Downstream of a Signalized Intersection

Hesami, S., De Cauwer, C., Rombaut, E., Vanhaverbeke, L. & Coosemans, T., Feb 2023, In: *World Electric Vehicle Journal*. 14, 2, p. 1-13 13 p., 55.

Proactive Eco-Driving Control of an Autonomous Electric Vehicle in Presence of Signalized Intersections and Preceding Vehicles

Hesami, S., Vafaeipour, M., De Cauwer, C., Rombaut, E., Vanhaverbeke, L. & Coosemans, T., 2023, *2023 IEEE Vehicle Power and Propulsion Conference, VPPC 2023 - Proceedings*. Institute of Electrical and Electronics Engineers Inc., p. 1-6 6 p. VPPC60535.2023.10403167. (2023 IEEE Vehicle Power and Propulsion Conference, VPPC 2023 - Proceedings).

Automated Shuttle Service for Universitair Ziekenhuis Brussel Report on the Technological Maturity
Hesami, S., De Cauwer, C. & Vanhaverbeke, L., 2021, 71 p.

Activities

A Multi-Module Eco-Driving Control Framework for Platoons of Connected Autonomous Electric Vehicles in Mixed Traffic Environments Near Signalized Intersections

Simin Hesami (Speaker)
10 Nov 2023

Proactive Eco-driving Control of an Autonomous Electric Vehicle in Presence of Signalized Intersections and Preceding Vehicles

Simin Hesami (Speaker)
26 Oct 2023

Modeling the behavior of an autonomous shuttle for the evaluation of last-mile solutions

Simin Hesami (Speaker)
2022

Projects

SRP56: SRP-Onderzoekszwaartepunt: Autonomous Mobility & Logistics

Van Mierlo, J., Macharis, C., Coosemans, T., Hegazy, O., Van Lier, T., Crispeels, T., Guns, T., Vanhaverbeke, L., Rombaut, E., Berecibar, M., Hesami, S., Arapoglou, S., Li, J., De Cauwer, C. & Vranckx, A.
1/03/19 → 29/02/28