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Employment

Scientific employee

Engineering Technology
Vrije Universiteit Brussel
Brussels, Belgium
1 Nov 2024 → 31 Oct 2025

MOBI - Electromobility Research Centre

Vrije Universiteit Brussel
Brussels, Belgium
1 Jan 2023 → present

PhD, Faculty of Engineering

Vrije Universiteit Brussel
Brussels, Belgium
12 Mar 2021 → present

Research outputs

Recommendations for lighting studies on insects: methodological considerations and best practices

Mentens, A., De Causmaecker, L. M. S., Van Den Bossche, P., Vanschoenwinkel, B. & Jacobs, V. A., 4 Sep 2024, (In preparation) *IEEE Sustainable Smart Lighting*. Eindhoven, The Netherlands: IEEE Xplore

Road lighting - the trade-off between safety perception and light pollution

Mentens, A., 23 Apr 2024.

Road lighting - the trade-off between safety perception and light pollution

Mentens, A., Dotreppe, G., Van Den Bossche, P. & Jacobs, V. A., 23 Apr 2024, *EVS37—International Electric Vehicle Symposium and Exhibition (Seoul, KOR)*. 37 ed. Seoul, Korea: Electric Vehicle Symposium and Exhibition, 9 p.

Impact of colour temperature and illumination level on safety perception for parking garage lighting

Mentens, A., Dotreppe, G., Van Den Bossche, P., Scheir, G. H. & Jacobs, V. A., 29 Dec 2023, *Proceedings of CIE Quadrennial Meeting*. Vienna: Commission Internationale de L'Eclairage (CIE), p. 90-96 8 p.

Towards public LED lighting with minimal impact on insect movement

De Causmaecker, L. M. S., Mentens, A., Segers, L., Van Den Bossche, P., Vanschoenwinkel, B. & Jacobs, V. A., 29 Dec 2023, *Proceedings of the 30th CIE SESSION*. Vienna: Commission Internationale de L'Eclairage (CIE), 10 p.

The Private Charger — local charging station management from different perspectives

Van Den Bossche, P., Mentens, A. & Dotreppe, G., 11 Jun 2023, *Proceedings of the 36th Electric Vehicle Symposium and Exhibition*. EVS36, 6 p.

How can we influence safety perception in the VUB parking garages?

Mentens, A., 5 May 2023, (Unpublished).

Development of a control system to evaluate the impact of artificial light modulation on insects

De Causmaecker, L. M. S., Mentens, A., Aerts, S., Vanschoenwinkel, B., Moortgat, R., Van Den Bossche, P. & Jacobs, V. A., 1 Oct 2022, *Proceedings of the Symposium on Advances in Measurement of Temporal Light Modulation*. Commission Internationale de L'Eclairage (CIE), p. 31-39 9 p.

Electrical safety as key issue in EV charging infrastructure

Van Den Bossche, P., Mentens, A. & Dotreppe, G., 11 Jun 2022, *Proceedings of the 35th International Electric Vehicle Symposium and Exhibition (EVS35)*. EVS35, 7 p.

Impact of advanced inverter functions on low-voltage power grids

Mentens, A., Chamorro, H. R., Jacobs, V. A., Topolánek, D., Drapéla, J. & Martinez, W., Dec 2021, In: *IET Energy Systems Integration*. 3, 4, p. 426-436 11 p.

Daylight Glare Probability prediction for an office room

Mentens, A., Martin, S., Descamps, F., Lataire, J. & Jacobs, V. A., 29 Sep 2021, *Proceedings of CIE Midterm Meeting*. 2021 ed. Commission Internationale de L'Eclairage (CIE), p. 176-181 6 p.

Optimizing camera placement for a luminance-based shading control system

Mentens, A., Scheir, G., Ghysel, Y., Descamps, F., Lataire, J. & Jacobs, V. A., 29 Sep 2021, *Proceedings of CIE Midterm Meeting*. 2021 ed. Commission Internationale de L'Eclairage (CIE), p. 1-7 7 p.

Optimizing camera placement for a luminance-based shading control system

Mentens, A., 28 Sep 2021, (Unpublished).

Elektriciteit-1: Uitgewerkte oefencursus ter ondersteuning van WPO's

Mentens, A. & Dotreppe, G., 1 Sep 2021, Brussel: Vrije Universiteit Brussel.

Elektriciteit-2: Uitgewerkte oefencursus ter ondersteuning van WPO's

Mentens, A. & Dotreppe, G., 1 Sep 2021, Brussel: Vrije Universiteit Brussel.

Elektrotechniek: Uitgewerkte oefencursus ter ondersteuning van WPO's

Mentens, A. & Dotreppe, G., 1 Sep 2021, Brussel: Vrije Universiteit Brussel.

Data-driven transfer function modelling of building dynamics using a frequency domain approach

Bernard, S., Belmans, B., Descamps, F., Mentens, A., Jacobs, V. A. & Lataire, J., 2021, *Building Simulation Conference proceedings: IBPSA*. International Building Performance Simulation Association, p. 1810-1817 8 p.