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Employment

Scientific employee

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

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PhD, Faculty of Engineering

Vrije Universiteit Brussel
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12 Mar 2021 → present

Research outputs

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

Mentens, A., 11 Nov 2024. 1 p.

The preferred placement of the external Human Machine Interface for the safety communication between automated vehicles and vulnerable road users

Li, R., Ainoo, N. K., Watson, D., Mentens, A., Dotreppe, G., Pissens, I. & Jacobs, V. A., 17 Oct 2024, *12th International Forum of Automotive Lighting*. Insitute for Electric Light Sources, Fudan University, p. 104-110 6 p.

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

Vehicular Visible Light Communication Channel Models: A systematic review

Dotreppe, G., Coosemans, J., Mentens, A., Van Den Bossche, P. & Jacobs, V. A., 26 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.

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

Mentens, A., 23 Apr 2024.

Vehicular Visible Light Communication Channel Models: A systematic review

Dotreppe, G., Coosemans, J., Mentens, A., 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, 12 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), p. 291-300 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.