Publication list

Olaf Wysocki

December 2023

Accepted for publication:

- **Wysocki, O**., Hoegner, L. and Stilla, U. MLS2LoD3: Refining low LoDs building models with MLS point clouds to reconstruct semantic LoD3 building models, *Accepted for publication in the proceedings of 3D GeoInfo 2023, Lecture Notes in Geoinformation and Cartography.*

- Froech, T., **Wysocki, O**., Hoegner, L. and Stilla, U. Reconstructing facade details using MLS point clouds and Bag-of-Words approach, *Accepted for publication in the proceedings of 3D GeoInfo 2023, Lecture Notes in Geoinformation and Cartography.*

- Tan, Y., **Wysocki, O**., Hoegner, L. and Stilla, U. Classifying point clouds at the facade-level using geometric features and deep learning networks, *Accepted for publication in the proceedings of 3D GeoInfo 2023, Lecture Notes in Geoinformation and Cartography.*

- Schwarz, S., Pilz, T., **Wysocki, O**., Hoegner, L. and Stilla, U. Transferring facade labels between point clouds with semantic octrees while considering change detection, *Accepted for publication in the proceedings of 3D GeoInfo 2023, Lecture Notes in Geoinformation and Cartography.*

Published:

- **Wysocki, O**., Xia, Y., Wysocki M., Grilli, E., Hoegner, L., Cremers D., and Stilla, U. Scan2LoD3: Reconstructing semantic 3D building models at LoD3 using ray casting and Bayesian networks, *In: Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition, 6547-6557, 2023, https://shorturl.at/qzSX0.*

- Hoegner, L., **Wysocki, O**. and Stilla, U. Anreicherung von 3D Bestandsgebäudemodellen aus MLS Daten, *22. Internationale Geodätische Woche Obergurgl 2023, 198-208, 2023, https://shorturl.at/uxEJK.*

- **Wysocki, O**., Grilli, E., Hoegner, L. and Stilla, U. Combining visibility analysis and deep learning for refinement of semantic 3D building models by conflict classification, *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, X-4/W2-2022, 289–296, https://doi.org/10.5194/isprs-annals-X-4-W2-2022-289-2022, 2022.*

- **Wysocki, O**., Hoegner, L. and Stilla, U. Refinement of semantic 3D building models by reconstructing underpasses from MLS point clouds, *International Journal of Applied Earth Observation and Geoinformation, 111, 2022, 102841, https://doi.org/10.1016/j.jag.2022.102841, 2022.*

- **Wysocki, O**., Hoegner, L. and Stilla, U. TUM-FAÇADE: Reviewing and enriching point cloud benchmarks for façade segmentation, *International Archives of the Photogrammetry, Remote Sensing & Spatial Information Sciences, XLVI-2/W1-2022, 529–536, https://doi.org/10.5194/isprs-archives-XLVI-2-W1-2022-529-2022, 2022*

- **Wysocki, O**., Xu, Y. and Stilla, U. Unlocking point cloud potential: Fusing MLS point clouds with semantic 3D building models while considering uncertainty, *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, VIII-4/W2-2021, 45–52, https://doi.org/10.5194/isprs-annals-VIII-4-W2-2021-45-2021, 2021*

- **Wysocki, O**., Schwab, B., Hoegner, L., Kolbe, TH. and Stilla, U. Plastic surgery for 3D city models: A pipeline for automatic geometry refinement and semantic enrichment, *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, V-4-2021, 17–24, https://doi.org/10.5194/isprs-annals-V-4-2021-17-2021, 2021*