Information und Technik Nordrhein-Westfalen 2024. 3D-Gebäudemodelle. https://www.opengeodata.nrw.de/produkte/geobasis (last date accessed: day month year).

Kingma, D. and Ba, J. 2017. Adam: A method for stochastic optimization. arXiv:1412.6980.

Kolbe, T. H., Gröger, G. and Plümer, L. 2005. *CityGML: Interoperable Access to 3D City Models*. Springer: Berlin Heidelberg, 883-899 p.

Li, Z. and Shan, J. 2022. RANSAC-based multi primitive building reconstruction from 3D point clouds. *ISPRS Journal of Photogrammetry and Remote Sensing* 185:247.

Lussange, J., Yu, M., Tarabalka, Y. and Lafarge, F. 2023. 3D detection of roof sections from a single satellite image and application to LoD2-building reconstruction. arXiv:2307.05409.

Neven, D., Brabandere, B., Proesmans, M. and Van Gool, L. 2019. Instance segmentation by jointly optimizing spatial embeddings and clustering bandwidth.In *Proceedings of the IEEE/cvf conference on computer vision and pattern recognition* 8837-8845Nex, F. and Remondino, F. 2012. Automatic roof outlines reconstruction from photogrammetric DSM. *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences1:* 257-262.

Patil, V., Sakaridis, C., Liniger, A. and Van Gool, L. 2022. P3Depth: Monocular depth estimation with a piecewise planarity prior.*Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*: 1610-1621.Peters, R., Dukai, B., Vitalis, S., van Liempt, J. and Stoter, J. 2022. Automated 3D reconstruction of LoD2 and LoD1 models for all 10 million buildings of the Netherlands. *Photogrammetric Engineering and Remote Sensing* 88:165-170.

Roggiolani, G., Sodano, M., Guadagnino, T., Magistri, F., Behley, J. and Stachniss, C. 2023. Hierarchical approach for joint semantic, plant instance, and leaf instance segmentation in the agricultural domain. In Proceedings of the *IEEE International Conference on Robotics and Automation (ICRA)*: 9601-9607Schuegraf, P., Shan, J. and Bittner, K. 2024. Planes4LoD2: Reconstruction of LoD-2 building models using a depth attention-based fully convolutional neural network. *ISPRS Journal of Photogrammetry and Remote Sensing* 211:425-437.

Sinning-Meister, M., Gruen, A. and Dan, H. 1996. 3D city models for CAAD-supported analysis and design of urban areas. *ISPRS Journal of Photogrammetry and Remote Sensing* 51:196–208.

Yu, J. and Blaschko, M. 2015. Learning submodular losses with the Lovász hinge.*International Conference on Machine Learning*: 1623-1631.

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Suhel Sen and Md. Omar Sarif

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Ming Li, Jiangying Qin, Gruen Armin, Jianya Gong, and Jiageng Zhong

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Ruishan Zhao, Zhi Yu, Libo Wang, Chunsen Chen, Wenchao Huang, and Jiguang Dai