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Automatic Object Extraction from Airborne Laser Scanning Point Clouds for Digital Base Map Production

Widyaningrum, E.

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Propositions

Accompanying the dissertation

Automatic Object Extraction from Airborne Laser Scanning Point Clouds for Digital Base Map Production

by

Elyta Widyaningrum

1. Transforming 3D point clouds into images or voxels leads to an inevitable loss of information in digital mapping. (Chapter 3).
2. Building polygons should be extracted by fitting lines to edge points rather than by line simplification of a piecewise linear curve. (Chapter 4).
3. Building outline extraction techniques should not use human enforced structure on perpendicularity and parallelism. (Chapter 5).
4. Selection of an appropriate automatic digital mapping method must consider the post-editing efforts.
5. Products developed using the requirements "pull" approach are likely to be more successful than a technology "push" approach.
6. Accelerating map production relies more on faster data processing rather than on faster data acquisition.
7. Research is guaranteed to stick if it improves human well-being.
8. A dream without a road map showing the best possible way to reach the destination is only hope.
9. Lockdown shows that freedom is worthless if it is not secure enough to have it.
10. A good proposition makes the writer uncomfortable.

These propositions are regarded as opposable and defendable, and have been approved as such by the promotors Prof.dr.ir. R.F. Hanssen and Dr. R.C. Lindenbergh.