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Biological model representation and analysis

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Stellingen

Behorende bij het proefschrift

Biological model representation and analysis

1. *Less is more* for selecting phenotype classification features. Selecting prominent features is more important for classifier training.
[this thesis]
2. Prior probability should be carefully counted in the phenotype classification.
[this thesis]
3. For point cloud based surface reconstruction, a point cloud distributed through the curvature differences provides a better input than a point cloud with a uniform distribution.
[this thesis]
4. A synthetic analytical surface model is a useful tool for the evaluation of surface reconstruction methods.
[this thesis]
5. The L-system has proven a useful tool for construction of ground truth structures for arborized objects like the mammary gland.
[this thesis]
6. A phenotype analysis requires a precise model representation regardless of the dimensionality of the data.
[this thesis]
7. A visual observation between the images might show different results, but we should always trust the reproducible results of computational analyses.
8. Rosalyn S. Yalow stated: "All women scientists should marry, rear children, cook, and clean in order to achieve fulfilment, to be a complete woman." For male scientists there should be no difference.
9. According to Niels Bohr, "An expert is a person who has made all the mistakes that can be made in a very narrow field." Making mistakes must therefore be part of the PhD maturation.