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Stellingen
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PATTERN RECOGNITION IN HIGH-THROUGHPUT ZEBRAFISH IMAGING

1. Automated image analysis is the last hurdle in the High Throughput pipeline.
   *this thesis, Chapter 1.*

2. The anchor region based template matching approach provides a reliable, objective and fast solution for the analysis of zebrafish screens.
   *this thesis, Chapter 3.*

3. For biological objects, results obtained from a scale independent deformable template representation are better compared to results obtained from a contour based representation.
   *this thesis, Chapter 6.*

4. A solution for High Throughput Imaging in zebrafish research must be able to deal with a variation in shape and size of the objects as well as variations in imaging conditions in the images.
   *this thesis, Chapter 3.*

5. Region based analysis of infection provides meaningful patterns for the understanding of infection mechanisms.
   *this thesis, Chapter 5.*

6. Normalization of the representation of a biological object is required for data mining of biological data.
   *this thesis, Chapter 5.*

7. Mutant bacteria can be characterized based on their infection phenotype.
   *this thesis, Chapter 5.*

8. A combination of top-down and bottom-up segmentation methods is required for a thorough understanding of image content.
   *this thesis, Chapter 2.*

9. Interpretation of spatial information alone is often more complicated than spatial temporal images of a lower resolution.

10. Founding a spin off company as a continuation of a phd project requires a great amount of ambition, yet it is always worth a chance.

11. Based on tunnel depth Saint-Petersburg metro system is the deepest in the world.