

Cover Page



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Title: Multimodality cardiac image analysis for the assessment of coronary artery disease

Issue Date: 2013-09-11

Propositions

1. Assessment of coronary artery disease must increasingly utilize information from two or more complementary imaging modalities. [This thesis]
2. Automatic registration & segmentation methods are major prerequisites for the integration of multimodality cardiac imaging data as they reduce operator bias and allow rapid analysis of cardiac images from individual modalities. [This thesis]
3. Visual analysis of cardiac MR images must always be supplemented with an objective assessment based on quantitative perfusion parameters. [This thesis]
4. While new imaging techniques open doors for diagnostic improvements, new challenges (e.g., artifacts) sneak in as well. [This thesis]
5. Integration of image processing methods into user friendly tools is essential for their swift adoption in regular clinical use.
6. The success of a new imaging technique depends not only on its ability to improve healthcare but also on its cost-effectiveness.
7. An open sharing of anonymous clinical data can lead to significant improvements in the quality of image processing algorithms.
8. Among the existing imaging modalities, MRI has the maximum potential to become the one-stop-shop for the assessment of various cardiovascular pathologies.
9. Career in research is not a sprint, it is a marathon.
10. The whole is greater than the sum of its parts. – *Aristotle (384 – 322 BC) in *Metaphysica* (350 BC)*
11. The important thing in science is not so much to obtain new facts as to discover new ways of thinking about them. – *Sir William Henry Bragg (1862 – 1942 AD)*
12. Not everything that can be counted counts, and not everything that counts can be counted. – *Albert Einstein (1879 – 1955 AD)*