Propositions accompanying the thesis "Image Analysis for Guidance in Minimally Invasive Liver Interventions" by Luu Manh Ha

1. Filtering techniques significantly improve liver vessel segmentation in portal-venous CT images (this thesis)

2. In image guided liver interventions, image registration allows accurate projection of a tumor from the pre-operative image to the intra-operative image (this thesis)

3. A point-to-surface penalty term is an effective and efficient way to improve the alignment of the liver boundary in intra-patient registration of liver CT images (this thesis)

4. Non-rigid registration is a prerequisite for accurate fusion of pre- and intra-operative images for minimally invasive liver interventions (this thesis)

5. Image registration between pre- and post-treatment CT images provides a useful tool to perform a quantitative assessment of the overlap of the tumor and the ablation zone (this thesis)

6. In MICCAI conferences, there should both be a place for novel methodology, and for contributions that address the challenges to bring existing methodology to the clinic (Wiro Niessen)

7. When applied to routinely acquired clinical imaging data, there is no medical imaging method that has perfect performance

8. Prevention is better than cure (Desiderius Erasmus)

9. Open access helps young researchers with limited funding more easily reach the state of the art in their field of research

10. Research skills developed in science are relevant for many aspects of daily life

11. Art and music keep a PhD balanced in the academic life