Model-driven segmentation of X-ray left ventricular angiograms

Oost, C.R.

Model-Driven Segmentation of X-Ray Left Ventricular Angiograms

Colophon

About the cover
The sequence of images on the cover shows half a cardiac cycle of the left ventricle in an X-ray left ventricular angiographic acquisition. The utmost left image represents the left ventricle in the end diastolic phase. When following the string of images in a counter-clockwise fashion, the contraction of the left ventricle over time is depicted, ending at the end systolic phase. In both the end diastolic and the end systolic image frame a yellow contour line is drawn. These contours are the results of the automated methodology, as presented in this thesis. After visual inspection, the analyzing expert cardiologist ratified both contours without further manual editing. The combination of all images together represents a typical shape of the projected left ventricle as seen in a single-plane 30° right anterior oblique view acquisition.

About the quotes
The Japanese quotes (and their English translations) that are used on the title pages of each chapter aim to deliver in short the scope of the chapter. What these quotes have in common is that they all use the Japanese character 心 (‘kokoro’), signifying (among other possible meanings) ‘heart’.

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