Automated image analysis techniques for cardiovascular magnetic resonance imaging

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Curriculum vitae

Rob van der Geest was born in Leiderdorp, the Netherlands on March 9, 1966. In 1984 he received his VWO diploma from the Bonaventura Scholengemeenschap, Leiden, and in 1992 his Master of Science degree (ir.) in Electrical Engineering at the Delft University of Technology, Delft, The Netherlands. The topic of his graduation work was the development of a system for automated labeling of branches of the coronary arterial tree in X-ray angiograms. He spent three months at Duke University Medical Center, Durham, USA to carry out validation experiments for an automated system for assessment of coronary artery dimensions from X-ray angiograms. In 1992 he joined the Laboratory for Clinical and Experimental Image Processing (LKEB) of the Leiden University Medical Center. At this position he started new developments into cardiovascular Magnetic Resonance Imaging. The main topic of research was the development of automated contour detection methods needed for assessment of quantitative functional parameters from cine MR acquisitions and MR velocity-encoded imaging. The results of this work have been described in this thesis. Currently, he is heading the Section Cardiovascular Magnetic Resonance Imaging at LKEB. Under his supervision, image processing research is carried out for cardiac and vascular applications of Magnetic Resonance Imaging.