



The Singapore Bioimaging Consortium (SBIC)
presents a seminar on

**“Advanced Automated Post Processing Methods
for Quantification of Cardiac MRI”**

Speaker: A/Professor Rob J. van der Geest
Leiden University Medical Center
Host : Dr Lee Kuan Jin / Velan S. Sendhil
Date : Tuesday, 22 May 2018
Time : 2.00pm – 3.00pm
Venue : SBIC Seminar Room
11 Biopolis Way
Level 2, Helios Building, Singapore 138667
(Please enter via Level 1)

Abstract

Quantification of CMR image data often requires extensive manual image analysis by experienced observers, which is a time consuming and tedious process. Advanced image processing methods can help to speed up this process and can be used to extract relevant quantitative imaging features which cannot be obtained in a reliable and objective manner by visual analysis. In this presentation various image processing methods will be reviewed which can be used for automated assessment of cardiac dimensions, myocardial deformation quantification and myocardial tissue characterization. In addition this presentation will highlight the recent progress in the use of machine learning techniques (Deep Learning) for application of automated CMR image classification and image segmentation in CMR.

About the Speaker

Rob J. van der Geest received his MSc degree in Electrical Engineering from the Delft University of Technology in 1992 and his PhD in medical imaging from Leiden University in 2011. Since 1992, he has been affiliated with the Division of Image Processing (LKEB), Department of Radiology at the Leiden University Medical Center, where he started working on research and developments of methods for automated segmentation and quantification of cardiovascular MR imaging studies. He is currently Associate Professor and heading the Section on Magnetic Resonance Imaging. Within his research team, software algorithms and research applications are being developed for accurate, objective and reproducible quantification of MR imaging studies with the aim to support clinical decision-making and clinical research. The developed software applications are being used by many international research centers. In addition, developed software algorithms have been transferred to medical industry for integration into commercially available image analysis applications. He is a reviewer for several international scientific journals and is co-author of more than 200 technical and clinical scientific papers.

--- Admission is free and all are welcome ---