Computer-aided detection of wall motion abnormalities in cardiac MRI
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Citation

Version: Corrected Publisher’s Version
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Downloaded from: https://hdl.handle.net/1887/15187

Note: To cite this publication please use the final published version (if applicable).
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Published abstract

ACKNOWLEDGEMENTS

This thesis describes results of research that was carried out within the KGB section (Dutch abbreviation for knowledge-guided image processing) of LKEB (Dutch abbreviation for Laboratory for Clinical and Experimental Image Processing), Department of Radiology, Leiden University Medical Center, the Netherlands. The research was performed under the supervision of prof. dr. ir. J.H.C. Reiber and dr. ir. B.P.F. Lelieveldt, and was financed by the Dutch Science Foundation (NWO). Throughout the odyssey of my PhD quest, I am deeply indebted to my colleagues, friends and families for physical and moral support, guidance and assistance. My greatest gratitude to all of them.

I would like to express my sincere gratitude to prof. dr. ir. Bart ter Haar Romeny and prof. dr. Luc Florack, who always put their confidence in me from the very beginning. Their support has resulted in my first scientific paper during the first year of my PhD study. I would also like to thank Jos Westenberg for providing me his VEC-MRI data for this publication.

During the rest of my PhD work, I am very grateful to have collaboration with dr. Alejandro Frangi. All remaining chapters of this thesis are the products of a fruitful collaboration with him. Thank you Alex for letting me stay at your group for two months and for giving me a long-distance probabilistic course on Skype. I would also like to thank Dirk Kaandorp for providing the cardiac MR data of his patients and also their visual score assessment, and also Hildo Lamb for his valuable input in helping me understand the clinical problems in this research.

It is my pleasure to have been working at LKEB, especially to witness two generations of KGB section members. Therefore I would like to acknowledge Mehmet, Hansa, Mike, Elco, Julien, Maribel and Mark for making it such a gezellige place to work. Many thanks also to Nora, Martin, Vikas, Meng, Peter Kok, Artem and Marta for their scientific drawings on the whiteboard.

In general, I would like to thank all my former and current LKEB colleagues, whom I cannot all mention here. Particularly for Jasper, Patrick and Andrei, thank you for your patience in accepting me as your roommate. I would like also to thank Rob van der Geest for adopting me as a post-doc in the MRI section, while I was still busy finishing this thesis.

I would like to thank Bertie, Fred and Michele for their technical and administrative supports. My special gratitude goes to Istjar Broeijer, my former personal adviser at LUMC. Thank you for helping me (and my wife) dealing with the Dutch foreign police in Eindhoven who lost our residence permit applications.

Upon completion of this thesis, I would like to thank Els Stoopman who has smoothed
the administrative processes. Especially for my nephew, Khairi, who has given up his end-
year school vacation term for drawing the cover page, Azar Mawardi and Yusdi Gazali, who
have helped him, thank you all for that.

I am very grateful to be surrounded by my family who has given me tremendous love
and supports that cannot be written by words. Kami cuma bisa berdo’a, Allah melimpah-
kan kasih sayang buat papah/bapak dan mamah/mamak dalam kehidupan dunia dan
akhirat. Your material supports, your continuous praying and your abundance love are
our banisters of life that we always be grateful to.

In the same light, I would like to thank all my brothers-in-law and sisters-in-law for
their instant help whenever we are in trouble, regardless where and how far we are. For
Bang Rhiza, Kak Ika, Bang Warli, Nimah, Bang Hakim, Kak Upha, Isan and Vita, jazakallahu
khairan kathira. Also to Anggy, Dodo, Dita and Wendy. To all my nephews and nieces who
always lighten our life, you are all so adorable.
Avan Suinesiaputra was born in Jakarta, Indonesia on 7 April 1974. After completing his pre-university education (SMA) at SMA Negeri 3 Bandung, he studied computer science at the Department of Informatics Engineering, Institut Teknologi Bandung, Indonesia, in 1992. In 1998, he completed his final bachelor project on texture segmentation with Gabor wavelet transform. After two years working as an assistant lecturer in the same institute, he arrived in the Netherlands to continue his study at the Section of Computational Science group, University of Amsterdam, in 2000. He finished his master of science in the computational science program cum laude in 2002. In his master studies, he finalized his thesis entitled “Multiscale optic flow analysis for magnetic resonance imaging” at the Department of Biomedical Engineering, Technische Universiteit Eindhoven. Starting in September 2002, he joined the Laboratory for Clinical and Experimental Image Processing (LKEB) at Leiden University Medical Center to work as a PhD student. His main topic of research was developing a novel method to integrate information in different cardiac MR protocols towards a one-stop shop cardiac MRI analysis. The results of his research are manifested in this thesis with the focus on building a computer-aided diagnosis method for cardiac MRI. Currently, he is still working at LKEB as a post-doctoral researcher. He is developing a 3D semi-automated vessel segmentation method from MR angiographic data. His main research interests include statistical shape modeling of medical data, morphometric analysis, probabilistic methods for computer-aided diagnosis, and model-based image analysis.
Words are so inapt
to express my gratitude
for your sincere benevolence,
for your deep understanding,
and for your affectionate solicitude.

Only to God
that I always be grateful to,
for having you.