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Automatic Quantitative Analysis of Pulmonary Vessels in CT: Methods and Applications

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Citation

Zhai, Z. (2020, March 10). *Automatic Quantitative Analysis of Pulmonary Vessels in CT: Methods and Applications*. Retrieved from <https://hdl.handle.net/1887/86281>

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Issue Date: 2020-03-10

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Abstracts

Z. Zhai, H. Ota, M. Staring, J. Stolk, K. Sugimura, K. Takase, and B. C. Stoel. Treatment Effect of Balloon Pulmonary Angioplasty in CTEPH, Quantified by Automatic Comparative Imaging in CTPA, *Radiological Society of North America - RSNA*, 2017.

Acknowledgements

This thesis is the result of my PhD research in the Division of Image Processing (LKEB), Department of Radiology, Leiden University Medical Center (LUMC), the Netherlands. I got a lot of support from the promotor, supervisors, cooperators, colleagues, friends, and families. I would like to express my sincere appreciations to them. I want to give my thanks to my thesis committee and opponent committee for their comments.

Firstly, I would like to give my thanks to my promotor Prof. Boudewijn Lelieveldt, and my supervisors Dr. Berend C. Stoel and Dr. Marius Staring, who provided me the position in LKEB. The LKEB is a cooperative, helpful and international lab, it is my pleasure to join the lab.

Berend, I am so lucky to have a nice supervisor like you. You are so positive and supportive to all kinds of projects. I really enjoyed the trips to conferences or visiting cooperators with you. I would like to thank you for encouraging me to the top of Zao Ski-Mountain, although I walked down with the skis on my shoulders. I also give my thanks to your wife Paulien, she is so nice driving us to the Airport deep in the night. Under your supervision, I became an independent researcher gradually. Marius, you are so helpful with all technical issues of the projects. You provided many innovative ideas and constructive comments. I would like to give my sincere acknowledgements to you.

I would also like to thank my cooperators: Jan and Maarten who gave many help in pulmonary knowledge; Eric and Duliëtte from the Department of Medicine-Thrombosis and Hemostasis; Irene, Sasha and Wouter from Medical Physics; Lucia, Anne and Jeska; Hideki and Wenyu, thank you for the support in the CTEPH project. Prof. Xuhui Zhou, Qiuxia, XiaoJuan, thank you for providing well organized data and annotations.

It is my pleasure to work with LKEB colleagues. Denis, thank you very much for all your help with MeVisLab and Pulmo. Els, I really enjoyed the concert of your 'Mandolin Orchestra ONI' and thank you so much for your help and supports for my project. Leo and Michèle, thank you for all the help in IT management. Rob, thank you for the BBQ in your house and the comfy boat trip in the summer. Jouke, you are one of the first LKEB colleagues who I knew, and thank you for the online interview and then the opportunity to join LKEB. All the members of the deep learning reading group: Hessam, Mohamed, Sahar, Kilany, Xiaowu, Qing and Qian, thank you for

sharing the cutting-edge technologies and the group discussions. Patrick, Jeroen, Niels, Alexander and Oleh, thanks for your invitation for lunch every working day. Baldur, Evgeni, Thomas, Floris, Antonios, Ahmed and Arlin, thank you very much for your nice greetings. Thanks to all desk mates of mine, Gorkem, Nora, Baas and etc, who shared the 'student island' with me.

I would also like to give my thanks to colleagues in Rotterdam, Yuanyuan, Hua, Yao, Chaoping, Bo, Gokhan, Zahra; and colleagues in Leiden, Ling, Yingguang, Yuchuan, Shengnan, Zhuo, Qing, Xiaowu, Jingnan, Xinpei, Lu, Yuanbo and Chenghong. Thanks to my friend, Xiaoyu, Xiaoyao, Zhongwu Hannah, Kun, Yang, Quanchi, Gangqi and his wife Yan; and my ex-housemates Haoyu, and his wife Tianran, Renjiang, Guiying, Wangyang and Hui.

I would like to thanks my families. 感谢我的爸爸妈妈，对我支持和理解，感谢您们的无私的爱；感谢我的岳母，大哥，大嫂以及可爱的多多，谢谢您们的支持；感谢我的姑姑，姑父，舅舅，妹妹，姐姐，哥哥，感谢您们的帮助和支持。Special thanks to my wife Ningning, you make me happy. You make me special, and you let me know what love is. Thank you for your love and selfless supports.

Curriculum Vitae

Zhiwei Zhai was born in Shandong, China in 1989. In 2008, he started his studying in the major of Information and Computing Science at Harbin Institute of Technology (Weihai) and obtained a Bachelor degree of Science in 2012. He obtained a 'top ten outstanding students' award (10/5000) and several 'national scholarship' awards. In 2012, he did a summer internship in Jinhe Company of Information and Technology (Weihai). At the same year, he began his master study in the major of Computer Science and Technology with an exemption. During the master study, he involved in the research of automatic detection and diagnosis of lung nodules based on CT images. In summer of 2013, he practiced in the Alibaba Company (Hangzhou) as an algorithm engineer. In 2014, he got his master degree of Engineering.

From September 2014, he started his PhD study in the Division of Image Processing (LKEB) under the Department of Radiology at Leiden University Medical Center in the Netherlands. His PhD project mainly focuses on pulmonary vessel analysis and quantification based on CT images, which results this thesis.

From September 2018, he works as a post-doctoral researcher in the LKEB, with the project of pulmonary artery-vein separation and quantification, based on deep learning and geometric deep learning.