

Publications

Articles

Published or Accepted:

- [1] Mark O. Wielpütz, Monika Eichinger, Oliver Weinheimer, Sebastian Ley; Marcus A. Mall, Matthias Wiebel, Arved Bischoff, Hans-Ulrich Kauczor, Claus Peter Heussel, Michael Puderbach Automatic Airway Analysis on Multidetector Computed Tomography in Cystic Fibrosis: Correlation With Pulmonary Function Testing. *J Thorac Imaging*, 2013 Mar; 28(2):104-113.
- [2] Pechin Lo, Bram van Ginneken, Joseph M. Reinhardt, Tarunashree Yavarna, Pim A. de Jong, Benjamin Irving, Catalin I. Fetita, Margarete Ortner, Romulo Pinho, Jan Sijbers, Marco Feuerstein, Anna Fabijanska, Christian Bauer, Reinhard Beichel, Carlos S. Mendoza, Rafael Wiemker, Jaesung Lee, Anthony P. Reeves, Silvia Born, Oliver Weinheimer, Eva M. van Rikxoort, Juerg Tschirren, Kensaku Mori, Benjamin Odry, David P. Naidich, Ieneke Hartmann, Eric A. Hoffman, Mathias Prokop, Jesper Johannes Holst Pedersen, Marleen de Bruijne Extraction of Airways From CT (EXACT'09). *IEEE Trans. Med. Imaging*, 31(11): 2093-2107 (2012)
- [3] Tobias Achenbach, [Oliver Weinheimer](#), Christoph Brochhausen, David Hollemann, Bastian Baumbach, A. Scholz, and Christoph Düber. Accuracy of automatic airway morphometry in computed tomography – correlation of radiological-pathological findings. *European Journal of Radiology*, 2012 Jan;81(1):183-8. doi: [10.1016/j.ejrad.2010.09.012](https://doi.org/10.1016/j.ejrad.2010.09.012).
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- [6] Claus Peter Heußel, Felix Herth, Jutta Kappes, Romy Hantusch, Simon Hartlieb, Oliver Weinheimer, Hans-Ulrich Kauczor, and Ralf Eberhardt. Fully-Automatic Quantitative Assessment of Emphysema in Computed Tomography – Comparison with Pulmonary Function Testing and Normal Values. *European Radiology*, 19(10):2391–2402, 2009. <http://dx.doi.org/10.1007/s00330-009-1437-z>.
- [7] Tobias Achenbach, [Oliver Weinheimer](#), Christoph Düber, and Claus Peter Heußel. Influence of Pixel Size on Quantification of Airway Wall Thickness in Computed Tomography. *Journal of Computer Assisted Tomography*, 33(5):725–730, 2009. <http://dx.doi.org/10.1097/RCT.0b013e318190699a>
- [8] Ralf Eberhardt, Claus Peter Heußel, M. Kreuter, Oliver Weinheimer, and F. J. Herth. Bronchoscopic lung volume reduction in patients with severe homogeneous lung emphysema: a pilot study. *Dtsch. Med. Wochenschr.*, 134:506–510, 2009. <http://dx.doi.org/10.1055/s-0029-1208076>.
- [9] [Oliver Weinheimer](#), Tobias Achenbach, Carsten Bletz, Christoph Düber, Hans-Ulrich Kauczor, and Claus Peter Heußel. About Objective 3-D Analysis of Airway Geometry in Computerized Tomography. *IEEE Trans. Med. Imaging*, 27(1):64–74, 2008. <http://dx.doi.org/10.1109/TMI.2007.902798>.

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Proceedings

- [21] U. Heil, S. Frankel, K. Wunder, D. Groß, R. Schulze, C. Düber, E. Schömer, and [O. Weinheimer](#). Total Variation Regularization in Digital Breast Tomosynthesis: Regularization Parameter Determination based on Small Structures Segmentation Rates. Fully3D 2013.

- [22] Sascha Fränkel, Katrin Wunder, Ulrich Heil, Daniel Groß, Ralf Schulze, Ulrich Schwanecke, Christoph Düber, Elmar Schömer, [Oliver Weinheimer](#). Total Variation Regularization in Digital Breast Tomosynthesis. *Bildverarbeitung für die Medizin 2013*: 356-361, Heidelberg 2013.
- [23] [Oliver Weinheimer](#), Tobias Achenbach, Claus-Peter Heussel, and Düber, Christoph. Automatic Lung Segmentation in MDCT Images. In Proc. of Fourth International Workshop on Pulmonary Image Analysis (in conjunction with MICCAI 2011), Toronto 2011. http://www.oliwe.com/publications/Weinheimer_2011_LOLA11_Poster.pdf http://www.oliwe.com/publications/Weinheimer_2011_LOLA11_Paper.pdf
- [24] [Oliver Weinheimer](#); Tobias Achenbach; Christoph Brochhausen; David Hollemann; Bastian Baumbach; Claus-Peter Heussel; Christoph Düber: Radiologisch-pathologische Korrelation: Genauigkeit der automatisch bestimmten Bronchialwanddicke *Fortschr Röntgenstr* 2010; 182: A1 Abstract | RÖFo - Fortschritte auf dem Gebiet der Röntgenstrahlen und der bildgebenden Verfahren; Issue 11, 2010 [doi:10.1055/s-0030-1268286](https://doi.org/10.1055/s-0030-1268286).
- [25] [Oliver Weinheimer](#), Tobias Achenbach, and Düber, Christoph. Fully Automated Extraction of Airways from CT Scans Based on Self-Adapting Region Growing. In M. Brown, M. de Bruijne, B. van Ginneken, A. Kiraly, J.M. Kuhnigk, C. Lorenz, J.R. McClelland, K. Mori, A.P. Reeves, and J. Reinhardt, editors, Proc. of Second International Workshop on Pulmonary Image Analysis (in conjunction with MICCAI 2009), London 2009. http://www.oliwe.com/publications/Weinheimer_2009_EXACT09_Poster.pdf http://www.oliwe.com/publications/Weinheimer_2009_EXACT09_Paper.pdf
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Reviewer for

- IEEE Transactions on Medical Imaging
- ELSEVIER Computer Methods and Programs in Biomedicine