

## Publikationen 2014

### Peer reviewed papers

Diwoy C, Liebmann D, Neumayer B, Reinisch A, Knoll F, Strunk D, Stollberger R. Positive contrast of SPIO-labeled cells by off-resonant reconstruction of 3D radial half-echo bSSFP. *NMR Biomed*, 28 (1):79-88 <http://dx.doi.org/10.1002/nbm.3229> (2014)

Hassler E, Ogris K, Petrovic A, Neumayer B, Widek T, Yen K, Scheurer E. Contrast of artificial subcutaneous hematomas in MRI over time. *Int J Legal Med*, <http://dx.doi.org/10.1007/s00414-014-1124-8> (2014)

Helmberger M, Pienn M, Urschler M, Kullnig P, Stollberger R, Kovacs G, Olschewski A, Olschewski H, Balint Z. Quantification of tortuosity and fractal dimension of the lung vessels in pulmonary hypertension patients. *PLOS One*, 9 (1) <http://dx.doi.org/10.1371/journal.pone.0087515> (2014)

Kamolz L.P, Lumenta D.B, Parvizi D, Dirnberger J, Owen R, Höller J, Giretzlehner M. Smartphones and burn size estimation: "Rapid Burn Assessor". *Annals of Burns and Fire Disasters*. *Annals of Burns and Fire Disasters* XXVII (n.2):101-104 (2014)

Krebs N, Langkammer C, Goessler W, Ropele S, Fazekas F, Yen K, Scheurer E. Assessment of trace elements in human brain using inductively coupled plasma mass spectrometry. *J. Trace Elem. Med Biol.*, 28 (1):1-7 <http://dx.doi.org/10.1016/j.jtemb.2013.09.006> (2014)

Neumayer B, Hassler E, Petrovic A, Widek T, Scheurer E. Age Determination of Soft Tissue Hematomas. *NMR Biomed*, 27 (11):1397-1402 <http://dx.doi.org/10.1002/nbm.3202> (2014)

Petrovic A, Scheurer E, Stollberger R. Closed-Form Solution for T2 mapping with Nonideal Refocusing of Slice Selective CPMG Sequences. *Magn Reson Med*, 73 (2):818-827 <http://dx.doi.org/10.1002/mrm.25170> (2014)

Riener-Hofer R, Webb B, Scheurer E. Forensigraphy: The integration of imaging techniques into the criminal justice system. *European Police Science and Research Bulletin*, 11:47-56 (2014)

Rudyanto R D, Kerkstra S, van Rikxoort E M, Fetita C, Brillet P-Y, Lefevre C, Xue W, Zhu X, Liang J, Oksüz I, Ünay D, Kadipasaoglu K, Estepar R S J, Ross J C, Washko G R, Prieto J-C, Hernandez Hoyos M, Orkisz M, Meine H, Hüllebrand M, Stöcker C, Lopez Mir F, Naranjo V, Villanueva E, Staring M, Xiao C, Stoel B, Fabijanska A, Smistad E, Elster A C, Linseth F, Foruzan A H, Kiros R, Popuri K, Cobzas D, Jimenez-Carretero D, Santos A, Ledesma-Carbayo M J, Helmberger M, Urschler M, Pienn M, Bosboom D G H, Campo A, Prokop M, de Jong P A, Ortiz-de-Solorzano C, Munoz-Barrutia A, van Ginneken B. Comparing algorithms for automated vessel segmentation in computed tomography scans of the lung: The VESSEL12 study. *Med Image Anal*, 18 (7):1217-1232 <http://dx.doi.org/10.1016/j.media.2014.07.003> (2014)

Scheurer E, Schoelzke S. Consent to forensic radiologic examinations by living crime victims. *Int J Legal Med*, 128 (2):323-328 <http://dx.doi.org/10.1007/s00414-013-0831-x> (2014) <http://www.ncbi.nlm.nih.gov/pubmed/23381578>.

Urschler M, Höller J, Bornik A, Paul T, Giretzlehner M, Bischof H, Yen K, Scheurer E. Intuitive Presentation of Clinical Forensic Data Using Anonymous and Person-Specific 3D Reference Manikins. *Forensic Sci Int*, 241:155-166 <http://dx.doi.org/10.1016/j.forsciint.2014.05.017> (2014)

Webb B, Petrovic A, Urschler M, Scheurer E. Assessment of fiducial markers to enable the co-registration of photographs and MRI data. *Forensic Sci Int*, 248:148-153 (2014)

## Book, book chapters and other publications

Ebner T, Stern D, Donner R, Bischof H, Urschler M. Towards Automatic Bone Age Estimation from MRI: Localization of 3D Anatomical Landmarks. In: Springer LNCS 8674 (Eds), Proc Medical Image Computing and Computer Assisted Intervention (MICCAI) Boston:421-428 (2014).

Hammernik K, Ebner T, Stern D, Urschler M, Pock T. Vertebrae Segmentation in 3D CT Images based on a Variational Framework. In: (Eds), Proc MICCAI Workshop Computational Methods and Clinical Applications for Spine Imaging (CSI) Boston (2014). Honourable Mention Award.

Kainz S, Riener-Hofer R, Schick P, Scheurer E. Die Relevanz von (rechts-)medizinischen Untersuchungen in der gerichtlichen Beurteilung von Körperverletzungen. In: *Österreichische Richterzeitung*; (Eds), Wien 10/14:221-224 (2014).

Riener-Hofer R, Scheurer E, Kainz S. Fünf Jahre Klinisch-Forensische Untersuchungsstelle in Graz. In: *Kriminalistik - Unabhängige Zeitschrift für die kriminalistische Wissenschaft und Praxis*; Verlagsgruppe HJR GmbH Kriminalistik Verlag (Eds), Heidelberg 5/2014:317-322 (2014).

Schenk F, Urschler M, Aigner C, Roesner I, Aichinger P, Bischof H. Automatic glottis segmentation from laryngeal high-speed videos using 3D active contours. In: (Eds), Proc 18th Conf Medical Image Understanding and Analysis (MIUA) London:111-116 (2014).

Stern D, Ebner T, Bischof H, Grassegger S, Ehammer T, Urschler M. Fully Automatic Bone Age Estimation from Left Hand MR Images. In: Springer LNCS 8674 (Eds), Proc Medical Image Computing and Computer Assisted Intervention (MICCAI) Boston:220-227 (2014).

Stern D, Ebner T, Bischof H, Urschler M. Determination of legal majority age from 3D magnetic resonance images of the radius bone. In: (Eds), Proc International Symposium Biomedical Imaging Beijing (2014).

Urschler M, Leitinger G, Pock T. Interactive 2D/3D Image Denoising and Segmentation Tool for Medical Applications. In: (Eds), Proc MICCAI Workshop Interactive Medical Image Computation (IMIC) Boston (2014).

## **Abstract and conference presentations**

Balint Z, Pienn M, Helmberger M, Urschler M, Kullnig P, Stollberger R, Kovacs G, Olschewski A, Olschewski H. Comparison Of Quantitative Lung Vessel Tortuosity And Echocardiography For Non-Invasive Detection Of Pulmonary Hypertension. International Conference of the American Thoracic Society, San Diego, 2014, (2014). [Oral Communication].

Kainz S, Scheurer E, Riener-Hofer R. Das Klinisch-forensische Netzwerk Steiermark (KfN Steiermark). 93. Jahrestagung der DGRM, Greifswald / Heringsdorf, 09.-13. Sep. 2014, (2014). [Oral Communication].

Klasinc I, Ehammer T, Widek T, Scheicher S, Yen K, Scheurer E. Bestimmung der Angriffshand nach Würgen durch MRT Befunde. 93. Jahrestagung der DGRM, Greifswald / Heringsdorf, 09.-13. Sep. 2014, (2014). [Oral Communication].

Langkammer C, Krebs N, Birkl C, Pirpamer L, Borsodi F, Haindl M, Reishofer G, Porter D, Scheurer E, Fazekas F, Ropele S. High resolution diffusion MRI of the unfixed post mortem brain. Joint Annual Meeting ISMRM-ESMRMB 2014, Milan, Italy, 10.-16. Mai 2014, *Proc. Intl. Soc. Mag. Reson. Med.* 22 (2014). [Poster].

Ogris K, Hassler E, Petrovic A, Neumayer B, Widek T, Scheurer E. Evaluation of impact factors in the regeneration process of hematomas in the subcutaneous fatty tissue. Joint Annual Meeting ISMRM-ESMRMB 2014, Milan, Italy, 10.-16. Mai 2014, *Proc. Intl. Soc. Mag. Reson. Med.* 22 (2014). [Poster].

Pienn M, Helmberger M, Urschler M, Kullnig P, Stollberger R, Kovacs G, Olschewski A, Olschewski H, Balint Z. Quantification Of Lung Vessel Tortuosity In Pulmonary Hypertension Patients. International Conference of the American Thoracic Society, San Diego, 2014, (2014). [Oral Communication].

Stern D, Ebner T, Scheurer E, Urschler M. Legal Majority Age Determination from MR Images of the Radius Bone. Joint Annual Meeting ISMRM-ESMRMB 2014, Milan, Italy, 10.-16. Mai 2014, *Proc. Intl. Soc. Mag. Reson. Med.* 22 (2014). [Poster].

Stern D, Grassegger S, Ehammer T, Urschler M. Machine learning based automatic bone age estimation for MRI images of the left hand. Society for the Studies of Human Biology Symposium on Age Estimation, Oxford, UK, Dec 2014, (2014). [Oral Communication].

Urschler M, Grassegger S, Ehammer T, Stern D. Fusion of automatically estimated skeletal and dental age from a large reference database. Society for the Studies of Human Biology Symposium on Age Estimation, Oxford, UK, Dec 2014, (2014). [Oral Communication].

Webb B, Petrovic A, Scheurer E. Correlation of MRI and externally visible findings by external fiducial markers. Joint Annual Meeting ISMRM-ESMRMB 2014, Milan, Italy, 10.-16. Mai 2014, *Proc. Intl. Soc. Mag. Reson. Med.* 22 (2014). [Poster].