

Peer-Reviewed Impact Factor Journal Publications:

- 1. Healthy lung vessel morphology derived from thoracic computed tomography**
M. Pienn, C. Burgard, C. Payer, A. Avian, M. Urschler, R. Stollberger, A. Olschewski, H. Olschewski, T. Johnson, F. G. Meinel, Z. Balint
Frontiers in Physiology, accepted, published online 03/2018
[doi: 10.3389/fphys.2018.00346](https://doi.org/10.3389/fphys.2018.00346)
WoS Impact factor: 4.134 (2016); normalized IF: 0.827; Scopus CiteScore: 3.89 (2016); Scopus percentile: 85th
- 2. Integrated Computer-aided Forensic Case Analysis, Presentation, and Documentation based on Multimodal 3D Data**
A. Bornik, M. Urschler, D. Schmalstieg, H. Bischof, A. Krauskopf, T. Schwark, E. Scheurer, K. Yen
Forensic Science International, accepted, published online 03/2018
[doi: 10.1016/j.forsciint.2018.03.031](https://doi.org/10.1016/j.forsciint.2018.03.031)
WoS Impact factor: 1.989 (2016); normalized IF: 0.733; Scopus CiteScore: 2.32 (2016); Scopus percentile: 81st
- 3. Reducing acquisition time for MRI-based forensic age estimation**
B. Neumayer, M. Schlögl, C. Payer, T. Widek, T. Ehammer, R. Stollberger, M. Urschler
Scientific Reports, 8:2063, 2018
[doi: 10.1038/s41598-018-20475-1](https://doi.org/10.1038/s41598-018-20475-1)
WoS Impact factor: 4.259 (2016); normalized IF: 0.852; Scopus CiteScore: 4.63 (2016); Scopus percentile: 95th
- 4. Integrating Geometric Configuration and Appearance Information into a Unified Framework for Anatomical Landmark Localization**
M. Urschler, T. Ebner, D. Štern
Medical Image Analysis, 43:23-36, 2018
[doi: 10.1016/j.media.2017.09.003](https://doi.org/10.1016/j.media.2017.09.003)
WoS Impact factor: 4.188 (2016); normalized IF: 0.929; Scopus CiteScore: 5.69 (2016); Scopus percentile: 99th
- 5. Segmentation and Classification of Colon Glands with Deep Convolutional Neural Networks and Total Variation Regularization**
P. Kainz, M. Pfeiffer, M. Urschler
PeerJ, 5:e3874, 2017
[doi: 10.7717/peerj.3874](https://doi.org/10.7717/peerj.3874)
WoS Impact factor: 2.177 (2016); normalized IF: 0.695; Scopus CiteScore: 2.36 (2016); Scopus percentile: 88th
- 6. Forensic Age Estimation by Morphometric Analysis of the Manubrium from 3D MR Images**
N. Martinez-Vera, J. Höller, T. Widek, B. Neumayer, T. Ehammer, M. Urschler
Forensic Science International, 277:21-29, Aug. 2017
[doi: 10.1016/j.forsciint.2017.05.005](https://doi.org/10.1016/j.forsciint.2017.05.005)
WoS Impact factor: 1.989 (2016); normalized IF: 0.733; Scopus CiteScore: 2.32 (2016); Scopus percentile: 81st
- 7. Detection and Volume Estimation of Artificial Hematomas in the Subcutaneous Fatty Tissue: Comparison of Different MR Sequences at 3.0 T**
K. Ogris, A. Petrovic, S. Scheicher, H. Sprenger, M. Urschler, E. Hassler, K. Yen, E. Scheurer
Forensic Science, Medicine, and Pathology, 13(2):135-144, Jun. 2017
[doi: 10.1007/s12024-017-9847-8](https://doi.org/10.1007/s12024-017-9847-8)
WoS Impact factor: 1.842 (2016); normalized IF: 0.633; Scopus CiteScore: 1.05 (2016); Scopus percentile: 55th
- 8. Gland Segmentation in Colon Histology Images: The GlAS Challenge Contest**
K. Sirinukunwattana, J. P. W. Pluim, H. Chen, X. Qi, P.-A. Heng, Y. B. Guo, L. Y. Wang,

B. J. Matuszewski, E. Bruni, U. Sanchez, A. Böhm, O. Ronneberger, B. B. Cheikh, D. Racoceanu, P. Kainz, M. Pfeiffer, M. Urschler, D. R. J. Snead, N. M. Rajpoot
Medical Image Analysis, 35:489-502, Jan. 2017
[doi: 10.1016/j.media.2016.08.008](https://doi.org/10.1016/j.media.2016.08.008)

WoS Impact factor: 4.188 (2016); normalized IF: 0.929; Scopus CiteScore: 5.69 (2016); Scopus percentile: 99th

9. **Evaluation and Comparison of 3D Intervertebral Disc Localization and Segmentation Methods for 3D T2 MR Data: A Grand Challenge**

G. Zheng, C. Chengwen, B. Ibragimov, R. Korec, T. Vrtovec, H. Hutt, R. Everson, J. Meakin, I. A. Andrade, B. Glocker, H. Chen, Q. Dou, P.-A. Heng, C. Wang, D. Forsberg, A. Neubert, J. Fripp, M. Urschler, D. Štern, M. Wimmer, A. A. Novikov, D. L. Belavy, H. Cheng, G. Armbrecht, D. Felsenberg, S. Li
Medical Image Analysis, 35:327-344, Jan. 2017
[doi: 10.1016/j.media.2016.08.005](https://doi.org/10.1016/j.media.2016.08.005)

WoS Impact factor: 4.188 (2016); normalized IF: 0.929; Scopus CiteScore: 5.69 (2016); Scopus percentile: 99th

10. **Automated Integer Programming Based Separation of Arteries and Veins from Thoracic CT Images**

C. Payer, M. Pienn, Z. Balint, A. Shekhovtsov, E. Talakic, E. Nagy, A. Olschewski, H. Olschewski, M. Urschler
Medical Image Analysis, 34:109-122, Dec. 2016
[doi: 10.1016/j.media.2016.05.002](https://doi.org/10.1016/j.media.2016.05.002)

WoS Impact factor: 4.188 (2016); normalized IF: 0.929; Scopus CiteScore: 5.69 (2016); Scopus percentile: 99th

11. **Applicability of Greulich-Pyle and Tanner-Whitehouse Grading Methods to MRI when Assessing Hand Bone Age in Forensic Age Estimation: A Pilot Study**

M. Urschler, A. Krauskopf, T. Widek, E. Sorantin, T. Ehammer, M. Borkenstein, K. Yen, E. Scheurer
Forensic Science International, 266:281-288, Sep. 2016
[doi: 10.1016/j.forsciint.2016.06.016](https://doi.org/10.1016/j.forsciint.2016.06.016)

WoS Impact factor: 1.989 (2016); normalized IF: 0.733; Scopus CiteScore: 2.32 (2016); Scopus percentile: 81st

12. **Optimizing the 3D-reconstruction technique for serial block-face scanning electron microscopy**

S. Wernitznig, M. Sele, M. Urschler, A. Zankel, P. Pölt, F. C. Rind, G. Leitinger
Journal of Neuroscience Methods, 264:16-24, May 2016
[doi: 10.1016/j.ineumeth.2016.02.019](https://doi.org/10.1016/j.ineumeth.2016.02.019)

WoS Impact factor: 2.554 (2016); normalized IF: 0.552; Scopus CiteScore: 2.52 (2016); Scopus percentile: 61st

13. **A Multi-Center Milestone Study of Clinical Vertebral CT Segmentation**

J. Yao, J. E. Burns, D. Forsberg, A. Seitel, A. Rasoulian, P. Abolmaesumi, K. Hammernik, M. Urschler, B. Ibragimov, R. Korez, T. Vrtovec, I. Castro-Mateos, J. M. Pozo, A. F. Frangi, R. M. Summers, S. Li
Computerized Medical Imaging and Graphics, 49:16-28, Apr. 2016
[doi: 10.1016/j.compmedimag.2015.12.006](https://doi.org/10.1016/j.compmedimag.2015.12.006)

WoS Impact factor: 1.738 (2016); normalized IF: 0.433; Scopus CiteScore: 2.25 (2016); Scopus percentile: 80th

14. **What automated age estimation of hand and wrist MRI data tells us about skeletal maturation in male adolescents**

M. Urschler, S. Grassegger, D. Štern
Annals of Human Biology, 42(4):356-365, 2015
[doi: 10.3109/03014460.2015.1043945](https://doi.org/10.3109/03014460.2015.1043945)

WoS Impact factor: 1.570 (2015); normalized IF: 0.738; Scopus CiteScore: 1.43 (2015); Scopus percentile: 63rd

- 15. Dental age estimation of living persons: Comparison of MRI with OPG**
P. Baumann, T. Widek, H. Merkens, J. Boldt, A. Petrovic, M. Urschler, B. Kirnbauer, N. Jakse, E. Scheurer
Forensic Science International, 253:76-80, Aug. 2015
[doi: 10.1016/j.forsciint.2015.06.001](https://doi.org/10.1016/j.forsciint.2015.06.001)
WoS Impact factor: 1.950 (2015); normalized IF: 0.733; Scopus CiteScore: 2.22 (2015); Scopus percentile: 79th
- 16. Assessment of fiducial markers to enable the co-registration of photographs and MRI data**
B. Webb, A. Petrovic, M. Urschler, E. Scheurer
Forensic Science International, 248:148-153, Mar. 2015
[doi: 10.1016/j.forsciint.2014.12.027](https://doi.org/10.1016/j.forsciint.2014.12.027)
WoS Impact factor: 1.950 (2015); normalized IF: 0.733; Scopus CiteScore: 2.22 (2015); Scopus percentile: 79th
- 17. Comparing algorithms for automated vessel segmentation in computed tomography scans of the lung: The VESSEL12 study**
R. D. Rudyanto, S. Kerkstra, E. M. van Rikxoort, C. Fetita, P.-Y. Brillet, C. Lefevre, W. Xue, X. Zhu, J. Liang, I. Öksüz, D. Ünay, K. Kadipasaoglu, R. S. J. Estepar, J. C. Ross, G. R. Washko, J.-C. Prieto, M. Hernandez Hoyos, M. Orkisz, H. Meine, M. Hüllebrand, C. Stöcker, F. Lopez Mir, V. Naranjo, E. Villanueva, M. Staring, C. Xiao, B. C. Stoel, A. Fabijanska, E. Smistad, A. C. Elster, F. Lindseth, A. Hossein Foruzan, R. Kiros, K. Popuri, D. Cobzas, D. Jimenez-Carretero, A. Santos, M. J. Ledesma-Carbayo, M. Helmberger, M. Urschler, M. Pienn, D. G. H. Bosboom, A. Campo, M. Prokop, P. A. de Jong, C. Ortiz-de Solorzano, A. Munoz-Barrutia, B. Van Ginneken
Medical Image Analysis, 18(7):1217-1232, 2014
[doi: 10.1016/j.media.2014.07.003](https://doi.org/10.1016/j.media.2014.07.003)
WoS Impact factor: 3.654 (2014); normalized IF: 0.931; Scopus CiteScore: 5.32 (2014); Scopus percentile: 98th
- 18. Intuitive Presentation of Clinical Forensic Data Using Anonymous and Person-Specific 3D Reference Manikins**
M. Urschler, J. Höller, A. Bornik, T. Paul, M. Giretzlehner, H. Bischof, K. Yen, E. Scheurer
Forensic Science International, 241:155-166, Aug. 2014
[doi: 10.1016/j.forsciint.2014.05.017](https://doi.org/10.1016/j.forsciint.2014.05.017)
WoS Impact factor: 2.140 (2014); normalized IF: 0.867; Scopus CiteScore: 2.38 (2014); Scopus percentile: 81st
- 19. Quantification of Tortuosity and Fractal Dimension of the Lung Vessels in Pulmonary Hypertension Patients**
M. Helmberger, M. Pienn, M. Urschler, P. Kullnig, R. Stollberger, G. Kovacs, A. Olschewski, H. Olschewski, Z. Balint
PLoS ONE 9(1): e87515, Jan. 2014
[doi: 10.1371/journal.pone.0087515](https://doi.org/10.1371/journal.pone.0087515)
WoS Impact factor: 3.234 (2014); normalized IF: 0.860; Scopus CiteScore: 3.54 (2014); Scopus percentile: 94th
- 20. Forensic Case Analysis: From 3D Imaging to Interactive Visualization**
M. Urschler, A. Bornik, E. Scheurer, K. Yen, H. Bischof, D. Schmalstieg
IEEE Computer Graphics and Applications, 32(4):79-87, July-Aug. 2012
[doi: 10.1109/MCG.2012.75](https://doi.org/10.1109/MCG.2012.75)
WoS Impact factor: 1.228 (2012); normalized IF: 0.686; Scopus CiteScore: 1.46 (2012); Scopus percentile: 81st
- 21. Evaluation of Registration Methods on Thoracic CT: The EMPIRE10 Challenge**
K. Murphy, B. van Ginneken, J. Reinhardt, S. Kabus, K. Ding, X. Deng, K. Cao, K. Du, G. Christensen, V. Garcia, T. Vercauteren, N. Ayache, O. Commowick, G. Malandain, B. Glocker, N. Paragios, N. Navab, v. Gorbunova, J. Sporring, M. De Bruijne, X. Han, M. Heinrich, J. Schnabel, M. Jenkinson, C. Lorenz, M. Modat, J. McClelland, S. Ourselin, S. Muenzing, M. Viergever, D. De Nigris, D. Collins, T. Arbel, M. Peroni, R. Li, G. Sharp,

A. Schmidt-Richberg, J. Ehrhardt, R. Werner, D. Smeets, D. Loeckx, G. Song, N. Tustison, B. Avants, J. Gee, M. Staring, S. Klein, B. Stoel, M. Urschler, M. Werlberger, J. Vandermeulebroucke, S. Rit, D. Sarrut, J. Pluim
IEEE Transactions on Medical Imaging, 30(11):1901-1920, May 2011
[doi: 10.1109/TMI.2011.2158349](https://doi.org/10.1109/TMI.2011.2158349)

WoS Impact factor: 3.643 (2011); normalized IF: 0.970; Scopus CiteScore: 4.59 (2011); Scopus percentile: 97th

Major Peer-Reviewed Full Conference Papers:

- 1. Multi-Factorial Age Estimation from Skeletal and Dental MRI Volumes (Oral)**
D. Štern, P. Kainz, C. Payer, M. Urschler
In: Proceedings of the Machine Learning in Medical Imaging Workshop 2017, Quebec City, Canada, Sep 10. LNCS, vol. 10541, pp. 61-69, Springer International Publishing AG (2017)
[doi: 10.1007/978-3-319-67389-9_8](https://doi.org/10.1007/978-3-319-67389-9_8)
2017 oral acceptance rate: 23.8%
- 2. Regressing Heatmaps for Multiple Landmark Localization Using CNNs (Oral)**
C. Payer, D. Štern, H. Bischof, M. Urschler
In: Medical Image Computing and Computer-Assisted Intervention – MICCAI 2016, Athens, Greece. LNCS, vol. 9901, pp. 230-238, Springer, Heidelberg (2016)
[doi: 10.1007/978-3-319-46723-8_27](https://doi.org/10.1007/978-3-319-46723-8_27)
2016 oral acceptance rate: 5%
- 3. Automated Age Estimation from Hand MR Volumes using Deep Learning (Poster)**
D. Štern, C. Payer, V. Lepetit, M. Urschler
In: Medical Image Computing and Computer-Assisted Intervention – MICCAI 2016, Athens, Greece. LNCS, vol. 9901, pp. 194-202, Springer, Heidelberg (2016)
[doi: 10.1007/978-3-319-46723-8_23](https://doi.org/10.1007/978-3-319-46723-8_23)
2016 poster acceptance rate: 30.1%
- 4. From local to global random regression forests: Exploring anatomical landmark localization (Poster)**
D. Štern, T. Ebner, M. Urschler
In: Medical Image Computing and Computer-Assisted Intervention – MICCAI 2016, Athens, Greece. LNCS, vol. 9901, pp. 221-229, Springer, Heidelberg (2016)
[doi: 10.1007/978-3-319-46723-8_26](https://doi.org/10.1007/978-3-319-46723-8_26)
2016 poster acceptance rate: 30.1%
- 5. Automatic artery-vein separation from thoracic CT images using integer programming (Oral)**
C. Payer, M. Pienn, Z. Balint, A. Olschewski, H. Olschewski, M. Urschler
In: Medical Image Computing and Computer-Assisted Intervention – MICCAI 2015, Munich, Germany. LNCS, vol. 9350, pp. 36-43, Springer, Heidelberg (2015)
[doi: 10.1007/978-3-319-24571-3_5](https://doi.org/10.1007/978-3-319-24571-3_5)
2015 oral acceptance rate: 4.4%
- 6. You should use regression to detect cells (Poster)**
P. Kainz, M. Urschler, S. Schulter, P. Wohlhart, V. Lepetit
In: Medical Image Computing and Computer-Assisted Intervention – MICCAI 2015, Munich, Germany. LNCS, vol. 9351, pp. 276-283, Springer, Heidelberg (2015)
[doi: 10.1007/978-3-319-24574-4_33](https://doi.org/10.1007/978-3-319-24574-4_33)
2015 poster acceptance rate: 32.5%

7. **Towards Automatic Bone Age Estimation from MRI: Localization of 3D Anatomical Landmarks** (Oral)
T. Ebner, D. Štern, R. Donner, H. Bischof, M. Urschler
In: Medical Image Computing and Computer-Assisted Intervention – MICCAI 2014, Boston, USA. LNCS, vol. 8674, pp. 421-428, Springer, Heidelberg (2014)
[doi: 10.1007/978-3-319-10470-6_53](https://doi.org/10.1007/978-3-319-10470-6_53)
2014 oral acceptance rate: 4.2%
8. **Fully automatic bone age estimation from left hand MR images** (Poster)
D. Štern, T. Ebner, H. Bischof, S. Grassegger, T. Ehammer, M. Urschler
In: Medical Image Computing and Computer-Assisted Intervention – MICCAI 2014, Boston, USA. LNCS, vol. 8674, pp. 220-227, Springer, Heidelberg (2014)
[doi: 10.1007/978-3-319-10470-6_28](https://doi.org/10.1007/978-3-319-10470-6_28)
2014 poster acceptance rate: 29.4%
9. **Saliency Driven Total Variation Segmentation** (Poster)
M. Donoser, M. Urschler, M. Hirzer, H. Bischof
In: Proc. IEEE 12th International Conference on Computer Vision – ICCV 2009, Kyoto, Japan, pp. 817-824, IEEE (2009)
[doi: 10.1109/ICCV.2009.5459296](https://doi.org/10.1109/ICCV.2009.5459296)
2009 poster acceptance rate: 23.2%
10. **A Duality-Based Algorithm for TV-L1 Optical Flow Image Registration** (Poster)
T. Pock, M. Urschler, C. Zach, R. Beichel, H. Bischof
In: Medical Image Computing and Computer-Assisted Intervention – MICCAI 2007, Brisbane, Australia. LNCS, vol. 4792, pp. 511-518, Springer, Heidelberg (2007)
[doi: 10.1007/978-3-540-75759-7_62](https://doi.org/10.1007/978-3-540-75759-7_62)
2007 poster acceptance rate: 37.2%
11. **Automatic Point Landmark Matching for Regularizing Nonlinear Intensity Registration: Application to Thoracic CT Images** (Poster)
M. Urschler, C. Zach, H. Ditt, H. Bischof
In: Medical Image Computing and Computer-Assisted Intervention – MICCAI 2006, Copenhagen, Denmark. LNCS, vol. 4191, pp. 710-717, Springer, Heidelberg (2006)
[doi: 10.1007/11866763_87](https://doi.org/10.1007/11866763_87)
2006 poster acceptance rate: 40.1%
12. **A new registration/visualization paradigm for CT-Fluoroscopy guided RF liver ablation** (Poster)
R. Micu, T. F. Jakobs, M. Urschler, N. Navab
In: Medical Image Computing and Computer-Assisted Intervention – MICCAI 2006, Copenhagen, Denmark. LNCS, vol. 4190, pp. 882-890, Springer, Heidelberg (2006)
[doi: 10.1007/11866565_108](https://doi.org/10.1007/11866565_108)
2006 poster acceptance rate: 40.1%

Other Peer-Reviewed Full Conference Papers:

1. **Multi-Label Whole Heart Segmentation Using Anatomical Label Configurations** (Oral, *Winner of the MM-WHS Challenge at MICCAI STACOM 2017*)
C. Payer, D. Štern, H. Bischof, M. Urschler
In: Pop M. et al. (eds) *Statistical Atlases and Computational Models of the Heart. ACDC and MMWHS Challenges. STACOM 2017*, LNCS vol. 10663, pp. 190-198, Springer, Cham (2018).
2. **Pulmonary Lobe Segmentation in CT Images using Alpha-Expansion** (Poster)
N. Giuliani, C. Payer, M. Pienn, H. Olschewski, M. Urschler
In: *Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISIGRAPP 2018) – Volume 4: VISAPP*, pages 387-394, Funchal – Madeira, Portugal, Jan 29 (2018)
[doi: 10.5220/0006624103870394](https://doi.org/10.5220/0006624103870394)
3. **Simultaneous Multi-Person Detection and Single-Person Pose Estimation With a Single Heatmap Regression Network**
C. Payer, T. Neff, H. Bischof, M. Urschler, D. Štern
In: *ICCV 2017 PoseTrack Challenge: Human Pose Estimation and Tracking in the Wild*, Venice, Italy, Oct 23 (2017)
4. **Generative Adversarial Network based Synthesis for Supervised Medical Image Segmentation** (Oral, *Best Paper Award*)
T. Neff, C. Payer, D. Štern, M. Urschler
In: *Proceedings of the OAGM&ARW Joint Workshop 2017: Vision, Automation and Robotics*, Vienna, Austria, May 10-12, pp. 140-145, Verlag der TU Graz (2017)
[doi: 10.3217/978-3-85125-524-9-30](https://doi.org/10.3217/978-3-85125-524-9-30)
5. **Automatic Intervertebral Disc Localization and Segmentation in 3D MR Images based on Regression Forests and Active Contours** (Oral)
M. Urschler, K. Hammernik, T. Ebner, D. Štern
In: *International Workshop on Computational Methods and Clinical Applications for Spine Imaging – CSI 2015*, Munich, Germany. LNCS, vol. 9402, pp. 130-140, Springer (2016)
[doi: 10.1007/978-3-319-41827-8_13](https://doi.org/10.1007/978-3-319-41827-8_13)
6. **Automatic localization of locally similar structures based on the scale-widening random regression forest** (Oral)
D. Štern, T. Ebner, M. Urschler
In: *IEEE 13th International Symposium on Biomedical Imaging – ISBI 2016*, Prague, CZ, pp. 1422-1425, IEEE (2016)
[doi: 10.1109/ISBI.2016.7493534](https://doi.org/10.1109/ISBI.2016.7493534)
7. **From Individual Hand Bone Age Estimates to Fully Automated Age Estimation via Learning-Based Information Fusion** (Poster)
D. Štern, M. Urschler
In: *IEEE 13th International Symposium on Biomedical Imaging – ISBI 2016*, Prague, CZ, pp. 150-154, IEEE (2016)
[doi: 10.1109/ISBI.2016.7493232](https://doi.org/10.1109/ISBI.2016.7493232)
8. **Anatomical landmark detection in medical applications driven by synthetic data** (Poster)
G. Riegler, M. Urschler, M. Rütter, H. Bischof, D. Štern

In: IEEE International Conference on Computer Vision Workshop (ICCVW), TASK-CV, Santiago de Chile, Chile, pp. 85-89, IEEE (2015)
[doi: 10.1109/ICCVW.2015.21](https://doi.org/10.1109/ICCVW.2015.21)

9. **Increased tortuosity of pulmonary arteries in patients with pulmonary hypertension in the arteries** (Oral, *Best Oral Presentation Award*)
M. Pienn, C. Payer, A. Olschewski, H. Olschewski, M. Urschler, Z. Balint
In: Proc 19th Conference on Medical Image Understanding and Analysis (MIUA), Lincoln, UK, pp. 86-91, BMVA (2015)
10. **Automatic third molar localization from 3D MRI using random regression forests** (Poster)
W. Unterpirker, T. Ebner, D. Štern, M. Urschler
In: Proc 19th Conference on Medical Image Understanding and Analysis (MIUA), Lincoln, UK, pp. 195-200, BMVA (2015)
11. **Vertebrae Segmentation in 3D CT Images based on a Variational Framework** (Oral, *Honourable Mention Award*)
K. Hammernik, T. Ebner, D. Štern, M. Urschler, T. Pock
In: Recent Advances in Computational Methods and Clinical Applications for Spine Imaging – CSI 2014, Boston, USA. LNCVB, vol. 20, pp. 227-233, Springer (2015)
[doi: 10.1007/978-3-319-14148-0_20](https://doi.org/10.1007/978-3-319-14148-0_20)
12. **Automatic glottis segmentation from laryngeal high-speed videos using 3D active contours** (Oral)
F. Schenk, M. Urschler, C. Aigner, I. Roesner, P. Aichinger, H. Bischof
In: Proc 18th Conference on Medical Image Understanding and Analysis (MIUA), London, UK, pp. 111-116, BMVA (2015)
13. **Determination of legal majority age from 3D magnetic resonance images of the radius bone** (Oral)
D. Štern, T. Ebner, H. Bischof, M. Urschler
In: IEEE 11th International Symposium on Biomedical Imaging – ISBI 2014, Beijing, China, pp. 1119-1122, IEEE (2014)
[doi: 10.1109/ISBI.2014.6868071](https://doi.org/10.1109/ISBI.2014.6868071)
14. **Memory Efficient 3D Integral Volumes** (Oral)
M. Urschler, A. Bornik, M. Donoser
In: IEEE International Conference on Computer Vision Workshop (ICCVW), Big Data in 3D CV, Sydney, Australia, pp. 722-729, IEEE (2013)
[doi: 10.1109/ICCVW.2013.99](https://doi.org/10.1109/ICCVW.2013.99)
15. **Tortuosity of Pulmonary Vessels Correlates with Pulmonary Hypertension** (Oral, *Best Paper Award*)
M. Helmberger, M. Urschler, M. Pienn, Z. Balint, A. Olschewski, H. Bischof
In: Proc 16th Conference on Medical Image Understanding and Analysis (MIUA), Birmingham, UK, pp. 87-92, BMVA (2013)
16. **Pulmonary Vascular Tree Segmentation and Analysis from CT Images** (Oral)
M. Helmberger, M. Urschler, M. Pienn, Z. Balint, H. Bischof
In: Proc 37th Workshop of the Austrian Association for Pattern Recognition (ÖAGM), Innsbruck, Austria, arXiv (2013).

[arXiv:1304.7140 \[cs.CV\]](https://arxiv.org/abs/1304.7140)

17. **Learning Edge-Specific Kernel Functions for Pairwise Graph Matching** (Poster)
M. Donoser, [M. Urschler](#), H. Bischof
In: Proc British Machine Vision Conference (BMVC), Surrey, UK, BMVA (2012)
[doi: 10.5244/C.26.17](https://doi.org/10.5244/C.26.17)
18. **Highly Consistent Sequential Segmentation** (Oral)
M. Donoser, [M. Urschler](#), H. Riemenschneider, H. Bischof
In: Proc Scandinavian Conference on Image Analysis – SCIA 2011, Ystad Saltsjöbad, Sweden. LNCS, vol. 6688, pp. 48-58, Springer (2011)
[doi: 10.1007/978-3-642-21227-7_5](https://doi.org/10.1007/978-3-642-21227-7_5)
19. **Robust Optical Flow Based Deformable Registration of Thoracic CT Images** (Poster)
[M. Urschler](#), M. Werlberger, E. Scheurer, H. Bischof
In: Proc MICCAI Workshop Medical Image Analysis in the Clinic: A Grand Challenge, Beijing, China, pp. 195-204 (2010)
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1. **Nonlinear intra-modality registration of medical volume data**
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- 1. Automated segmentation and morphometry of muscle fibers from haematoxylin-eosin-stained histological sections**
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- 5. The constitutional conformity of age estimation in the Austrian Foreign and Immigration Law (Poster)**
M. Pfeifer, S. Kerbacher, M. Urschler, R. Riener-Hofer
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- 6. Automated Multi-Factorial Age Estimation from Skeletal and Dental MRI Volumes based on Deep Learning (Oral)**
M. Urschler, D. Štern
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- 7. Developing an approach to post-mortem MR angiography (PMMRA): Investigation of vascular retention of perfusates in ex situ porcine hearts (Oral)**
B. A. Webb, K. Baron, M. Urschler, S. Scheicher, R. Stollberger
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- 8. Accuracy of age estimation based on undersampled MR images of the hand (Poster)**
B. Neumayer, M. Schlögl, C. Payer, T. Widek, T. Ehammer, R. Stollberger,
M. Urschler
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- 9. Age estimation using MR imaging of the third molar teeth and the medial clavicular epiphysis: Validation of a multifactorial approach (Poster)**
T. Widek, P. Baumann, H. Merkens, T. Ehammer, A. Petrovic, I. Klasinc, M. Urschler,
E. Scheurer
ISMRM 25th Annual Meeting & Exhibition, May 2017, Honolulu, Hawaii (2017)
- 10. Cause of death or caused by death: Differentiation of thromboemboli and post-mortem clots using quantitative MRI (Poster)**
B. Webb, M. Urschler, M. Leoni, B. Neumayer, T. Widek, S. Scheicher, R. Stollberger,
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- 11. Acceleration of MR Measurements for Age Estimation (Oral)**
B. Neumayer, M. Schlögl, C. Payer, T. Widek, T. Ehammer, R. Stollberger, M. Urschler
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- 13. Skeletal age estimation using shape variations of the manubrium in MR images (Oral)**

- N. P. Martinez-Vera, J. Höller, B. Neumayer, T. Widek, T. Ehammer, M. Urschler
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14. **Age dependent changes in lung arteries and veins in healthy women and men** (Oral)
 M. Pienn, C. Burgard, C. Payer, M. Urschler, F. G. Meinel, R. Stollberger, A. Olschewski, H. Olschewski, T. Johnson, Z. Balint
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 15. **Fortschritte bei der automatisierten Altersschätzung Jugendlicher aus MRT Daten der linken Hand**
 D. Štern, A. Bornik, M. Urschler
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 16. **3D Visualisierungstechniken zur virtuellen Darstellung und Rekonstruktion von dislozierten knöchernen Verletzungen** (Oral)
 A. Bornik, M. Urschler, A. Krauskopf, K. Yen
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 17. **Rechtliche Rahmenbedingungen der forensischen Altersdiagnostik im österreichischen Asyl- und Fremdenrecht**
 M. Pfeifer, S. Kerbacher, M. Urschler, R. Riener-Hofer
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 18. **Radiologische und automatisierte Lebendaltersschätzung aus MRT-Daten** (Oral)
M. Urschler
8. Thementag Recht und IT: "Forensigraphie – Möglichkeiten und Grenzen IT-gestützter klinisch-forensischer Bildgebung, June 2016, Graz, AT (2016)
 19. **Computer-aided stab wound channel reconstruction based on local visual depiction of entrapped air** (Oral)
 A. Bornik, A. Krauskopf, M. Urschler
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 20. **Evaluation of MRI sequences and liquids potentially suitable for post-mortem vascular perfusion** (Oral)
 B. A. Webb, D. Kirchmeyer, T. Widek, M. Urschler, R. Stollberger, T. Schwark
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 21. **Reduced Venous Vessel Density in Pre-Capillary Pulmonary Hypertension**
 M. Pienn, C. Payer, M. Urschler, C. Salvan-Schaschl, R. Neuwirth, R. Stollberger, G. Kovacs, V. Foris, A. Olschewski, H. Olschewski, Z. Balint
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 22. **Learning-based Information Fusion for Fully Automatic MRI Age Estimation** (Oral)
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 23. **Automatic Intervertebral Disc Localization and Segmentation in 3D MR Images based on Regression Forests and Active Contours** (Oral)
M. Urschler, K. Hammernik, T. Ebner, D. Štern
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 24. **Colon gland segmentation with deep convolutional neural networks and total variation segmentation**
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25. **Bone age determination from adolescence to young adulthood by investigating the sternoclavicular joint in MRI**
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26. **Was die automatische Altersschätzung von Hand MRT Daten über die skeletale Reifung in männlichen Jugendlichen erzählt** (Oral)
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27. **Regional differences in lung vessel morphology from thoracic CT images** (Oral)
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28. **Pulmonary arterial tortuosity as a non-invasive diagnostic tool for pulmonary arterial hypertension**
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In: *13th National Conference of Biophysics* Jun 2015, Timisoara, Romania (2015)
30. **Regression forest for automatic age estimation from hand magnetic resonance images** (Featured Oral Presentation)
D. Štern, M. Urschler
In: *OAGM/AAPR Workshop* May 2015, Salzburg, Austria (2015)
31. **Age estimation in adolescents and young adults using MRI data of the manubrium**
N. Martinez-Vera, J. Höller, B. Neumayer, T. Widek, S. Grassegger, T. Ehammer, E. Scheurer, M. Urschler
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32. **Co-registration of photographs and MRI data - Evaluation and application of external fiducial markers in the forensic investigation of subcutaneous hematomas** (Oral)
B. A. Webb, A. Petrovic, M. Urschler, E. Scheurer
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33. **Fusion of automatically estimated skeletal and dental age from a large reference database** (Oral)
M. Urschler, S. Grassegger, T. Ehammer, D. Štern
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34. **Machine learning based automatic bone age estimation for MRI images of the left hand** (Oral)
D. Štern, S. Grassegger, T. Ehammer, M. Urschler
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35. **Interactive 2D/3D Image Denoising and Segmentation Tool for Medical Applications**
M. Urschler, G. Leitinger, T. Pock
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36. **Vertebrae Segmentation in 3D CT Images based on a Variational Framework** (Oral)
K. Hammernik, T. Ebner, D. Štern, M. Urschler, T. Pock
Proc MICCAI Workshop Computational Methods and Clinical Applications in Spine Imaging (CSI) Sep 2014, Boston, USA, Honourable Mention Award (2014)
37. **Comparison of Quantitative Lung Vessel Tortuosity and Echocardiography for Non-Invasive Detection of Pulmonary Hypertension**

- Z. Balint, M. Pienn, M. Helmberger, M. Urschler, P. Kullnig, R. Stollberger, G. Kovacs, A. Olschewski, H. Olschewski
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38. **Quantification of Lung Vessel Tortuosity in Pulmonary Hypertension Patients (Oral)**
 M. Pienn, M. Helmberger, M. Urschler, P. Kullnig, R. Stollberger, G. Kovacs, A. Olschewski, H. Olschewski, Z. Balint
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39. **Legal Majority Age Determination from MR Images of the Radius Bone**
 D. Stern, T. Ebner, E. Scheurer, M. Urschler
 In: *22nd Annual Meeting ISMRM*, May 2014, Milan, Italy (2014)
40. **Dental age estimation of living persons: Comparison of dental MRI with conventional orthopantomogram**
 P. Baumann, T. Widek, H. Merkens, J. Boldt, A. Petrovic, M. Urschler, B. Kirnbauer, N. Jakse, E. Scheurer
 In: *International Congress of I.O.F.O.S.*, Aug 2013, Firenze, Italy. *Journal of Forensic Odontostomatology* (2013)
41. **Erhebung der Akzeptanz von anonymisierten und patienten-spezifischen 3D-Modellen zur Dokumentation klinisch-forensischer Befunde für rechtsmedizinische Gutachten**
 J. Höller, M. Urschler, E. Scheurer
 In: *92. Jahrestagung der DGRM*, Saarbrücken, Germany, Sep 2013, *Rechtsmedizin* 23 (4):325 (2013)
42. **Integrierte computerunterstützte Analyse und visuelle Aufbereitung forensischer Fälle basierend auf multimodaler 3D Bildgebung (Oral)**
 A. Bornik, M. Urschler, E. Scheurer
 In: *92. Jahrestagung der DGRM*, Saarbrücken, Germany, Sep 2013, *Rechtsmedizin* 23 (4):312 (2013)
43. **Fractal dimension of lung vessels negatively correlates with hemodynamics of patients**
 M. Helmberger, M. Pienn, G. Kovacs, P. Kullnig, M. Urschler, A. Olschewski, H. Olschewski, Z. Bálint
European Congress of Radiology, Mar 2013, Vienna, AT (2013)
44. **Interactive, Integrated Segmentation and Visualization for Analysis and Presentation of Clinical Forensic Images**
 A. Bornik, M. Urschler, E. Scheurer, D. Schmalstieg (2012)..
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45. **Dokumentation klinisch-forensischer Befunde anhand einer 3D-Rekonstruktion der Körperoberfläche mittels des Kinect Sensors (Oral)**
 J. Höller, M. Urschler, E. Scheurer
 In: *91. Jahrestagung der Deutschen Gesellschaft für Rechtsmedizin (DGRM 2012)*, Sep 2012, Freiburg, Germany (2012)
46. **Comparison of a generic 3D reference model with a person-dependent whole-body MRI-scan for presentation of clinical-forensic data (Oral)**
M. Urschler, A. Bornik, K. Yen, E. Scheurer
 In: *8th Int Symposium on Advances in Legal Medicine (ISALM)*, Sep 2011, Frankfurt/Main, Germany. *Rechtsmedizin* 21(4):362 (2011)
47. **Systematic approach to liver gas volume and distribution in post-mortem CT by computer aided density analysis**
 F. Fischer, M. Urschler, S. Kirchhoff, T. Ehammer, P. Herzog
 In: *8th Int Symposium on Advances in Legal Medicine (ISALM)*, Sep 2011, Frankfurt/Main, Germany. *Rechtsmedizin* 21(4):392 (2011)
48. **Artificial hematomas in subcutaneous fatty tissue: volume estimation by using different MR sequences and manual segmentation of pork belly phantoms**
 K. Ogris, M. Urschler, A. Petrovic, K. Yen, E. Scheurer
 In: *19th Annual Meeting ISMRM*, May 2011, Montreal, Canada (2011)

49. **Intuitive Präsentation Klinisch-Forensischer Daten mittels eines Referenz-Modells**
 J. Höller, M. Urschler, E. Scheurer, K. Yen
 In: *89. Jahrestagung der Deutschen Gesellschaft für Rechtsmedizin (DGRM 2010)*,
 Sep 2010, Berlin, Germany (2010)
50. **Interaktive Aufbereitung Klinisch-Forensischer 3D Daten** (Oral)
 K. Yen, M. Urschler, A. Bornik, E. Scheurer
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51. **Towards a highly-responsive 3D segmentation and visualization framework providing immediate user feedback for interactive segmentation of MR data sets**
M. Urschler, A. Bornik, H. Bischof, K. Yen, E. Scheurer
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52. **Active Appearance Model Fitting under Occlusion using Fast-robust PCA** (Oral)
 M. Storer, P. M. Roth, M. Urschler, H. Bischof, J. A. Birchbauer
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53. **On Combining Classifiers for Assessing Portrait Image Compliance with ICAO/ISO Standards**
 M. Storer, M. Urschler, H. Bischof, J. A. Birchbauer
 In: *Proc. Biometrics and Electronic Signatures (BIOSIG 2008)*, Sep 2008,
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54. **Evaluation of a method for digital definition of bone shapes**
 P. Peloschek, G. Langs, M. Urschler, J. Sailer, M. Uffman, T. Schlager, F. Kainberger,
 H. Bischof
 In: *European Congress of Radiology* Mar 2005, Vienna, Austria, pp. 191-192 (2005)
55. **One stop cardiac shop** (Demo)
 R. Rienmüller, G. Reiter, U. Reiter, O. Ryabikin, M. Kutateladze, M. Urschler, H. Mächler
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