

## **Publications**

### **Dirk Simon**

- [1] Owsijewitsch, M.; Simon, D.; Mehndiratta, A.; Ley-Zaporozhan, J.; Giesel, F. L.; Kauczor, HU.; Ley, S.: **Automatisierte Analyse des trachealen Lumens in Cine-CT Datensätzen mittels einer Softwarelösung.** Röko 2008
- [2] Owsijewitsch, M.; Mehndiratta, A.; Ley-Zaporozhan, J.; Simon, D.; Giesel, FL.; Heussel, C. P.; Ley, S.; Kauczor, HU.: **Inzidenz der erhöhten trachealen Kollapsneigung bei mittelgradiger bis schwerer COPD: automatische Quantifizierung der Trachealfläche in der Cine-CT.** Röko 2008
- [3] Owsijewitsch, M.; Simon, D.; Mehndiratta A.; Ley-Zaporozhan, J.; Giesel, F.L.; Kauczor, HU.; Ley, S.: **Software for analysis of tracheal lumen on cine-CT.** ECR 2008
- [4] Owsijewitsch, M.; Mehndiratta, A.; Ley-Zaporozhan, J.; Simon, D.; Eberhardt, R.; Ley, S.; Kauczor, HU.: **Prevalence of excessive tracheal collapsibility in moderate to severe COPD: manual and automated evaluation of cine-CT.** IOWA Comprehensive Lung Imaging Center 2008
- [5] Simon, D.; Klein, J.; Rexilius, J.; Stieltjes, B.: **Towards User-Independent ADC Quantification in Gliomas.** ESMRMB 2008
- [6] Simon, D.; Klein, J.; Rexilius, J.; Stieltjes, B.: **Objective Tumour Heterogeneity Determination in Gliomas.** Proceedings of SPIE Medical Imaging 2009
- [7] Thieke, C.; Nix, O.; Köhn, A.; Floca, R.; van Straaten, D., Hahn, H.; Strauss, L.G.; Siems, U.; Graf, M.; Prüm, H.; Klein, J.; Laue, H.; Kaster, F.; Hamprecht, F.A.; Simon, D.; Stieltjes, B.; Debus, J.; Huber, PE.: **Ein Framework und Multi-Applikations-Prototyp für integrierte radiologische Diagnostik und Strahlentherapie.** DEGRO 2009
- [8] Simon, D.; Klein, J.; Rexilius, J.; Re, T.; Lemke, A.; Laun, F.; Stieltjes, B.: **A Software Tool to automatically evaluate and quantify Diffusion Weighted Images.** Proceedings of 11<sup>th</sup> World Congress on Medical Physics and Biomedical Engineering 2009
- [9] Re, T.; Klauss, M.; Lemke, A.; Laun, F.; Simon, D.; Delorme, S.; Stieltjes, B.: **Intravoxel Incoherent Motion (IVIM)\* f-maps of Pancreatic Lesions.** Siemens Magnetom Flash Magazine 2009
- [10] Lemke, A.; Laun, B.; Klauss, M.; Re, T.; Simon, D.; Delorme, S.; Schad, R.; Stieltjes, B.: **Differentiation of Pancreas Carcinoma From Healthy Pancreatic Tissue Using Multiple b-Values: Comparison of Apparent Diffusion Coefficient and Intravoxel Incoherent Motion Derived Parameters.** Investigative Radiology 2009
- [11] Klauß, M.; Lemke, A.; Re, T.; Laun, F.; Simon, D.; Grenacher, L.; Kauczor, HU.; Delorme, S. and Stieltjes, B.: **Diagnoses and differentiation of pancreatic lesions using DWI-based IVIM imaging.** Cancer Imaging 2009

- [12] Klauf, M.; Lemke, A.; Re, T.J.; Laun, F.B.; Simon, D.; Grenacher, L.; Kauczor, H.-U.; Delorme, S.; Stieltjes, B.: **Imaging of pancreatic lesions using DWI-based IVIM-imaging**. ECR 2010
- [13] Re, T.; Klauss, M.; Lemke, A.; Laun, F.; Simon, D.; Manfredi, R.; Mucelli, R.; Delorme, S.; Stieltjes B.: **Improving IVIM Derived F-Maps of Pancreatic Tumors with Automatic Duct and Vessel Segmentation**. ISMRM 2010
- [14] Re, T.; Simon, D.; Manfredi, R.; Pozzi Mucelli, R.; Stieltjes, B.: **Fast f mapping : UN ALGORITMO VELOCE PER GENERARE IMMAGINI DELLA DIFFUSION WEIGHTED IVIM PERFUSION FRACTION F IMPLEMENTATO IN JAVA PER IL SOFTWARE OPEN-SOURCE IMAGEJ**. SIRM 2010
- [15] Re, T.; Simon, D.; Lemke, A.; Manfredi, R.; Pozzi Mucelli, R.; Stieltjes, B.: **LA SEGMENTAZIONE AUTOMATICA DEI VASI E DOTTI NELLE IMMAGINI DELLA DIFFUSION WEIGHTED IVIM PERFUSION FRACTION F (F-MAPS) NELLA DELINEAZIONE DEI TUMORI PANCREATICI**. SIRM 2010
- [16] Lemke, A.; Laun, F.; Simon, D.; Stieltjes, B.; Schad, L.: **An in vivo verification of the intravoxel incoherent motion effect in diffusion-weighted imaging of the abdomen**. Magnetic Resonance in Medicine 2010
- [17] Lemke, A.; Laun, F.; Simon, D.; Stieltjes, B. and Schad, L.: **Relaxation Time Effects in Intra Voxel Incoherent Motion Imaging**. ISMRM 2010
- [18] Graf, M.; Simon, D.; Lemke, A.; Re, T.; Laun, F.; Stieltjes, B.: **Evaluation of the value of registration on the reproducibility of Intra Voxel Incoherent Motion Imaging derived parameters**. DGMP 2010
- [19] Hillengass, J.; Stieltjes, B.; Bäuerle, T.; McClanahan, F.; Heiss, C.; Andrulis, M.; Bartl, R.; Shah, R.; Simon, D.; Ho, AD.; Schlemmer, HP.; Goldschmidt, H.; Delorme, S.: **Correlation of Bone Marrow Cellularity, Plasma Cell Infiltration and Microcirculation with Apparent Diffusion Coefficient of Diffusion Weighted Imaging in Patients with Monoclonal Plasma Cell Diseases**. American Society of Hematology 2010
- [20] Klauss, M.; Lemke, A.; Grünberg, K.; Simon, D.; Re, T.; Wente, M.; Laun, F.; Kauczor, H.-U.; Delorme, S.; Grenacher, L.; Stieltjes, B.: **Intravoxel Incoherent Motion MR Imaging for the Differentiation between Mass Forming Chronic Pancreatitis and Pancreatic Carcinoma**. Investigative Radiology 2010
- [21] Grünberg, K.; Mikolasch, M.; Ganten, M.; Simon, D.; Lemke, A.; Klauss, M.; Dinkel, J.; Münter, M.; Schlemmer, HP.; Delorme, S.; Stieltjes, B.: **Erste Ergebnisse zum Einfluss kombinierter Radiochemotherapie auf MR-Diffusionsparameter bei fortgeschrittenen Pankreaskarzinomen**. Experimentelle Radiologie Kiel 2010
- [22] Grünberg, KM.; Simon, D.; Münter, M.; Lemke, A.; Ganten, M.; Klauf, M.; Delorme, S.; Schlemmer, HP.; Stieltjes, B.: **Preliminary Results on the Influence of combined Chemoradiation on MR-Diffusion-weighted Imaging Parameters in Primary inoperable pancreatic carcinomas**. ECR 2011

- [23] Hillengass, J; Baeuerle, T.; Bartl, R.; Andrulis, M.; McClanahan, F.; Laun, F.; Zechmann, C., Shah, R.; Wagner-G und B.; Simon, D.; Heiss, C.; Neben K.; Ho, AD; Schlemmer, HP.; Goldschmidt, H.; Delorme, S.; Stieltjes, B.: **Non-invasive and quantitative assessment of bone marrow cellularity by diffusion weighted imaging in patients with monoclonal plasma cell disease: A comparative study with histology.** British Journal of Haematology 2011
- [24] Radbruch, A.; Lutz, K.; Simon, D.; Wiestler, B.; Bäumer, P.; Stieltjes, B.; Floca, RO.; Hartmann, C.; Wick, W.; Bendszus, M.; Heiland, S.: **Comparison of ADC Diffusion Maps and CBV Perfusion Maps in Patients with Newly Diagnosed Glioblastoma: Establishing Order in Heterogeneity.** ASNR 2011
- [25] Re, T.J.; Lemke, A.; Klauss, M.; Laun, F.B.; Simon, D.; Grünberg, K.; Delorme, S.; Grenacher, L., Manfredi, R.; Pozzi Mucelli, R; Stieltjes, B.: **Enhancing Pancreatic Adenocarcinoma Delineation in Diffusion Derived Intravoxel Incoherent Motion f-Maps Through Automatic Vessel and Duct Segmentation.** Magnetic Resonance in Medicine 2011
- [26] Hauser, T.; Essig, M.; Laun, F.; Münter, M.; Jenser, A.; Simon, D.; Gerigk, L.; Stieltjes, B.: **Characterization and therapy monitoring of head and neck carcinomas using intravoxel incoherent motion parameters – initial results.** RSNA 2011
- [27] Klauss, M.; Gaida, M.; Lemke, A.; Grünberg, K.; Simon, D.; Delorme, S.; Kauczor, H.U.; Grenacher, L. and Stieltjes, B. : **Histopathological Correlation of IVIM-Derived True Diffusion Constant in Patients with Pancreatic Carcinoma & Chronic Pancreatitis.** ISMRM 2011
- [28] Rheinheimer, S.; Stieltjes, B.; Schneider, F.; Simon, D.; Pahernik S.; Kauczor HU.; Hallscheidt, P.: **Investigation of renal lesions by diffusion-weighted magnetic resonance imaging applying intravoxel incoherent motion-derived parameters-Initial experience.** Eur J Radiol. 2011 Nov 18. [Epub ahead of print]
- [29] Simon, D.; Fritzsche, K.H.; Thieke, C.; Klein, J.; Parzer, P.; Weber, MA.; Stieltjes, B.: **Diffusion weighted imaging based probabilistic segmentation of high- and low-proliferative areas in high grade gliomas.** Cancer Imaging 2012
- [30] Graf, M.; Simon, D., Lemke, A.; Grünberg, K.; Mang, S.: **Toward a non-invasive screening tool for differentiation of pancreatic lesions based on intra-voxel incoherent motion derived parameters** Z Med Phys. 2013
- [31] Klauss, M.; Gaida, M. M.; Lemke, A.; Grünberg, K.; Simon, D.; Wente, M. N.; Delorme, S.; Kauczor, H. U.; Grenacher, L.; Stieltjes, B.: **Fibrosis and pancreatic lesions: counterintuitive behavior of the diffusion imaging-derived structural diffusion coefficient d.** Investigative Radiology, 2013.
- [32] Hauser, T.; Essig, M.; Jensen, A.; Gerigk, L.; Laun, F. B.; Münter, M.; Simon, D.; Stieltjes, B.: **Characterization and therapy monitoring of head and neck carcinomas using diffusion-imaging-based intravoxel incoherent motion parameters – preliminary results.** Neuroradiology, 2013.

- [33] Simon, D.; Sánta, C.: **KI in wissenschaftlichen Arbeiten**. Lange Nacht des Wissenschaftlichen Arbeitens, IU München, Mai 2025.
- [34] Simon, D.; Sánta, C.: **KI im alltäglichen Arbeiten**. SWM – Knowledge Club, Stadtwerke München, August 2025.
- [35] Simon, D.; Sánta, C.: **KI in wissenschaftlichen Arbeiten**. Lange Nacht des Wissenschaftlichen Arbeitens, IU München, Oktober 2025.
- [36] Eilers, E.; Simon, D.: **Digitale Transformation in KMU-Kliniken am Beispiel der Arona Kliniken in Berlin**. In: Digitale Transformation in KMU, Springer Gabler, 2026 (in Vorbereitung / noch nicht publiziert).