

Publikationen 2024

Klinik und Poliklinik für Diagnostische und Interventionelle Radiologie und Nuklearmedizin mit

Abteilung für Kinderradiologie

Abteilung für Nuklearmedizin und

Sektion für Experimentelle Biomedizinische Bildgebung / Institute for Biomedical Imaging

Originalien

Baradaran-Salimi K, Karimzadeh A, Voges B, Apostolova I, Sauvigny T, Simova O, Lanz M, Klutmann S, Stodieck S, Meyer PT, Buchert R. Brain perfusion SPECT in the presurgical evaluation of epilepsy: is additional ictal SPECT required in case of high-confidence lateralization of the seizure onset zone by interictal SPECT and vice versa? *EJNMMI Res.* 2024 Sep 12;14(1):83. doi: 10.1186/s13550-024-01149-8

Brandt C, Kluth T, Knopp T, Westen L. Dynamic image reconstruction with motion priors in application to three dimensional magnetic particle imaging. *SIAM Journal on Imaging Sciences.* 2024;17(3):1539–1586.

Buchert R, Huppertz HJ, Wegner F, Berding G, Brendel M, Apostolova I, Buhmann C, Poetter-Nerger M, Dierks A, Katzdobler S, Klietz M, Levin J, Mahmoudi N, Rinscheid A, Quattrone A, Rogozinski S, Rumpf JJ, Schneider C, Stoecklein S, Spetsieris PG, Eidelberg D, Sabri O, Barthel H, Wattjes MP, Hoglinger G, Alzheimer's Disease Neuroimaging I. Added value of FDG-PET for detection of progressive supranuclear palsy. *J Neurol Neurosurg Psychiatry.* 2024 Aug 8. doi:10.1136/jnnp-2024-333590

Buchert R, Szabo B, Kovacs A, Buddenkotte T, Mathies F, Karimzadeh A, Lehnert W, Klutmann S, Forgacs A, Apostolova I. Dopamine Transporter SPECT with 12-Minute Scan Duration Using Multiple-Pinhole Collimators. *J Nucl Med.* 2024 Mar 1; 65(3): 446-52. doi:10.2967/jnumed.123.266276

Buddenkotte T, Buchert R. Unrealistic Data Augmentation Improves the Robustness of Deep Learning-Based Classification of Dopamine Transporter SPECT Against Variability Between Sites and Between Cameras. *J Nucl Med.* 2024 Sep 3; 65(9): 1463-6. doi:10.2967/jnumed.124.267570

Buddenkotte T, Apostolova I, Opfer R, Kruger J, Klutmann S, Buchert R. Automated identification of uncertain cases in deep learning-based classification of dopamine transporter SPECT to improve clinical utility and acceptance. *Eur J Nucl Med Mol Imaging.* 2024 Apr; 51(5): 1333-44. doi:10.1007/s00259-023-06566-w

Dammann E, Ording-Müller LS, Franchi-Abella S, Verhagen MV, McGuirk SP, Bokkers RPH, Clapuyt PRM, Deganello A, Tandoi F, de Ville de Goyet J, Hebelka H, de Lange C, Lozach C, Marra P, Mirza D, Kaliciński P, Patsch JM, Perucca G, Tsiflikas I, Renz DM, Schweiger B, Spada M, Toso S, Viremouneix L, Woodley H, Fischer L, Brinkert F, Petit P, Herrmann J. European Society of Pediatric Radiology survey of perioperative imaging in pediatric liver transplantation: (3) postoperative imaging. *Pediatr Radiol.* 2024 Feb;54(2):276-284. doi: 10.1007/s00247-023-05842-z.

Dammann E, Steinmeister L, Groth M, Herden U, Fischer L, Brinkert F, Beime J, Tozakidou M, Bannas P, Herrmann J. Hepatic Artery Delineation on Ultrasound Volumes Comparing B-Flow and Color Doppler for Postoperative Monitoring of Pediatric Liver Transplants. *Diagnostics (Basel)*. 2024 Mar 14;14(6):617. doi: 10.3390/diagnostics14060617.

Dargahpour Barough M, Tavares de Sousa M, Hergert B, Fischer R, Huber L, Seliger JM, Kaul MG, Adam G, Herrmann J, Bannas P, Schoennagel BP. Myocardial strain assessment in the human fetus by cardiac MRI using Doppler ultrasound gating and feature tracking. *Eur Radiol*. 2024 Jan 10. doi: 10.1007/s00330-023-10551-0. Epub ahead of print. PMID: 38195730.

Dora J, Möddel M, Flenner S, Schroer CG, Knopp T, Hagemann J. Artifact-suppressing reconstruction of strongly interacting objects in x-ray near-field holography without a spatial support constraint. *Optics Express*. 2024;32(7):10801–10828.

Erley J, Jahnke CM, Schüttler S, Molwitz I, Chen H, Meyer M, Muellerleile K, Cavus E, Lund GK, Blankenberg S, Adam G, Tahir E. Sex-specific ventricular morphology, function, and tissue characteristics in arterial hypertension: a magnetic resonance study of the Hamburg city health cohort. *Eur Radiol*. 2024 Nov;34(11):7309-7320. doi: 10.1007/s00330-024-10797-2. Epub 2024 May 31. PMID: 38819515; PMCID: PMC11519140.

Erley J, Roedl K, Ozga AK, de Heer G, Schubert N, Breckow J, Burdelski C, Tahir E, Kluge S, Huber TB, Yamamura J, Adam G, Molwitz I. Dual-Energy CT muscle fat fraction as a new imaging biomarker of body composition and survival predictor in critically ill patients. *Eur Radiol*. 2024 Nov;34(11):7408-7418. doi: 10.1007/s00330-024-10779-4.)

Foerger F, Boberg M, Faltinath J, Knopp T, Möddel M. Design and optimization of a magnetic field generator for magnetic particle imaging with soft magnetic materials. *Advanced Intelligent Systems*. 2024;6(11):2400017.

Herrmann J, Petit P, Franchi-Abella S, Verhagen MV, McGuirk SP, Dammann E, Bokkers RPH, Clapuyt PRM, Deganello A, Tandoi F, de Ville de Goyet J, Hebelka H, de Lange C, Lozach C, Marra P, Mirza D, Kaliciński P, Patsch JM, Perucca G, Tsiflikas I, Renz DM, Schweiger B, Spada M, Toso S, Viremouneix L, Woodley H, Fischer L, Ording-Müller LS, Brinkert F. European Society of Pediatric Radiology survey of perioperative imaging in pediatric liver transplantation: (2) intraoperative imaging. *Pediatr Radiol*. 2024 Feb;54(2):269-275. doi: 10.1007/s00247-023-05840-1.

Hipp N (Student), Young KL, Apostolova I, Klutmann S, Hardewig I, Koglin N, Gallinat J, Buchert R. Increased off-target binding of [18F]florbetaben in the skull of women with reduced skull density. *Nuklearmedizin*. 2024 Aug; 63(4): 247-51. doi:10.1055/a-2246-5292

Karimzadeh A, Baradaran-Salimi K, Voges B, Apostolova I, Sauvigny T, Lanz M, Klutmann S, Stodieck S, Meyer PT, Buchert R. Short post-injection seizure duration is associated with reduced power of ictal brain perfusion SPECT to lateralize the seizure onset zone. *EJNMMI Res*. 2024 Apr 17;14(1):40. doi: 10.1186/s13550-024-01095-5

Karimzadeh A, Hecker CS, Heck MM, Tauber R, D'Alessandria C, Weber WA, Eiber M, Rauscher I. Matched-pair analysis of mCRPC patients receiving 177Lu-labeled PSMA-targeted radioligand therapy in a 4-week versus 6-week treatment interval. *EJNMMI research*. 2024 Oct 14; 14(1), 94. doi:10.1186/s13550-024-01143-0

Karimzadeh A, Moller K, Steuber T. [False positive multifocal PSMA PET/CT in a patient with prostate cancer and B cell chronic lymphocytic leukemia]. *Rofo*. 2024 Sep; 196(9): 966-8. doi:10.1055/a-2284-5385

Karimzadeh A, Schatz L, Sauer M, Apostolova I, Buchert R, Klutmann S, Lehnert W. Organ and tumor dosimetry including method simplification for [(177)Lu]Lu-PSMA-I&T for treatment of metastatic castration resistant prostate cancer. *EJNMMI Phys.* 2024 Jul 17; 11(1): 63. doi:10.1186/s40658-024-00668-6

Koehler D, Ozga AK, Molwitz I, Shenan F, Keller S, Adam G, Yamamura J. Influencing factors on the time to CT in suspected pulmonary embolism: an explorative investigation. *Sci Rep.* 2024 Apr 16; 14(1): 8741. doi:10.1038/s41598-024-59428-2

Koehler D, Trappe S, Shenan F, Karimzadeh A, Apostolova I, Klutmann S, Ambrosini F, Budaus L, Falkenbach F, Knipper S, Maurer T. Prostate-specific membrane antigen radioguided surgery with negative histopathology: an in-depth analysis. *Eur J Nucl Med Mol Imaging.* 2024 Jan; 51(2): 548-57. doi:10.1007/s00259-023-06442-7

König C, Adam G, Well L. Management of internal bleeding : Guidelines of the American Association for the Surgery of Trauma (AAST) and World Society of Emergency Surgery (WSES). *Radiologie (Heidelb).* 2024 Dec 12. doi: 10.1007/s00117-024-01400-2. Online ahead of print.

Kruger J, Opfer R, Spies L, Hedderich D, Buchert R. Voxel-based morphometry in single subjects without a scanner-specific normal database using a convolutional neural network. *Eur Radiol.* 2024 Jun; 34(6): 3578-87. doi:10.1007/s00330-023-10356-1

Kucerenko A, Buddenkotte T, Apostolova I, Klutmann S, Ledig C, Buchert R. Incorporating label uncertainty during the training of convolutional neural networks improves performance for the discrimination between certain and inconclusive cases in dopamine transporter SPECT. *Eur J Nucl Med Mol Imaging.* 2024 Nov 27. doi:10.1007/s00259-024-06988-0

Lenz A, Bahr F, Riedel C, Wright F, Sinn M, Zhang S, Schuett M, Well L, Adam G, von Kodolitsch Y, Schoennagel BP, Bannas P. Cluster analysis of 100 Marfan patients based on aortic 4D flow MRI and Z-score: insights into disease heterogeneity and stratification of subgroups. *Eur Radiol.* 2024 Sep 16. doi:10.1007/s00330-024-11034-6.

Lund GK, Leptin S, Ragab H, Sinn MR, Fierenz A, Cavus E, Muellerleile K, Chen H, Erley J, Harms P, Kisters A, Starekova J, Adam G, Tahir E. Prognostic Relevance of Ischemic Late Gadolinium Enhancement in Apparently Healthy Endurance Athletes: A Follow-up Study Over 5 years. *Sports Med Open.* 2024 Jan 29;10(1):13. doi: 10.1186/s40798-024-00680-1. PMID: 38282168.

Maass M, Kluth T, Droigk C, Albers H, Scheffler K, Mertins A, Knopp T. Equilibrium model with anisotropy for model-based reconstruction in magnetic particle imaging. *IEEE Transactions on Computational Imaging.* 2014;published online:1–14. doi: 10.1109/TCI.2024.3490381.

Mathies FL, Heeman F, Visser PJ, den Braber A, Yaqub M, Klutmann S, Scholl M, van de Giessen E, Collij LE, Buchert R. The Early Perfusion Image Is Useful to Support the Visual Interpretation of Brain Amyloid-PET With 18F-Flutemetamol in Borderline Cases. *Clin Nucl Med.* 2024 Sep 1; 49(9): 838-46. doi:10.1097/RLU.0000000000005360

Mohn F, Förger F, Thieben F, Möddel M, Schmale I, Knopp T, Graeser M. Resonant inductive coupling network for human-sized magnetic particle imaging. *Review of Scientific Instruments.* 2024;95(4):1-14.

Mohn F, Scheffler K, Ackers J, Weimer A, Wegner F, Thieben F, Ahlborg M, Vogel P, Graeser M, Knopp T. Characterization of the clinically approved MRI tracer Resotran for

magnetic particle imaging in a comparison study. *Physics in Medicine and Biology*. 2024;69:135014.

Molwitz I, Campbell GM, Knopp T, Schubert N, Erley J, Löser A, Adam G, Yamamura J, Fischer R, Ozga A-K, P. Szwargulski. Fat quantification in dual-layer detector spectral CT: How to handle iron overload, varying tube voltage and radiation dose indices. *Plos one*. 2024;19(5):e0302863.

Molwitz I, Kemper C, Stahlmann K, Yamamura J, Adam G, Langenbach MC, Reim M, Wegner F, Bannas P, Lotz J, Can E, Zagrosek-Regitz V, Hamm B, Keller-Yamamura S. Gender- and personality-specific differences in academic qualifications, research motivation, and attractiveness of leadership positions: a survey among radiologists from Germany. *Rofo*. 2024 Oct 16. doi: 10.1055/a-2415-7337. Epub ahead of print.

Nawwas L, Möddel M, Knopp T. Analysis of leakage artifacts and their impact on convergence of algebraic reconstruction in multi-contrast magnetic particle imaging. *Physics in Medicine and Biology*. 2024;69(21):215002.

Özden C, Mautner VF, Farschtschi S, Molwitz I, Ristow I, Bannas P, Well L, Klutmann S, Adam G, Apostolova I, Buchert R. Asymmetry of thalamic hypometabolism on FDG-PET/CT in neurofibromatosis type 1: Association with peripheral tumor burden. *J Neuroimaging*. 2024 Jan-Feb;34(1):138-144. doi: 10.1111/jon.13170.

Opfer R, Kruger J, Buddenkotte T, Spies L, Behrendt F, Schippling S, Buchert R. BrainLossNet: a fast, accurate and robust method to estimate brain volume loss from longitudinal MRI. *Int J Comput Assist Radiol Surg*. 2024 Sep; 19(9): 1763-71. doi:10.1007/s11548-024-03201-3

Opfer R, Ziemssen T, Kruger J, Buddenkotte T, Spies L, Gocke C, Schwab M, Buchert R. Higher effect sizes for the detection of accelerated brain volume loss and disability progression in multiple sclerosis using deep-learning. *Comput Biol Med*. 2024 Dec; 183(109289). doi:10.1016/j.combiomed.2024.109289

Pape LJ, Hambach J, Bannas P. Instructions for meaningful figures in radiological research publications. *Rofo*. 2024 May 15. English, German. doi: 10.1055/a-2285-3223.

Pfarr J, Zitta K, Hummitzsch L, Lutter G, Steinfath M, Jansen O, Tiwari S, Mohamad FH, Knueppel P, Lichte F, Mehdorn AS, Kraas J, Hess K, Faendrich F, Cremer J, Rusch R, Grocholl J, Albrecht M, Berndt R. 4D printing of bioartificial, small-diameter vascular grafts with human-scale characteristics and functional integrity. *Advanced Materials Technologies*. 2024

Riedel C, Hoffmann M, Ismahil M, Lenz A, Piecha F, Ristow I, Kluwe J, Schlüter M, Adam G, Schoennagel BP, Reeder SB, Bannas P. Four-dimensional Flow MRI-based Computational Fluid Dynamics Simulation for Noninvasive Portosystemic Pressure Gradient Assessment in Patients with Cirrhosis and Transjugular Intrahepatic Portosystemic Shunt. *Radiology*. 2024;313(1):e232989. doi:10.1148/radiol.232989

Ristow I, Hancken-Pauschinger CV, Zhang S, Stark M, Kaul MG, Rickers C, Herrmann J, Adam G, Bannas P, Well L*, Weinrich JM*. Non-contrast free-breathing 2D CINE compressed SENSE T1-TFE cardiovascular MRI at 3T in sedated young children for assessment of congenital heart disease. *PLoS One*. 2024 Feb 8;19(2):e0297314. doi: 10.1371/journal.pone.0297314.

Ristow I, Kaul MG, Stark M, Zapf A, Riedel C, Lenz A, Mautner VF, Farschtschi S, Apostolova I, Adam G, Bannas P, Salamon J*, Well L*. Discrimination of benign, atypical, and malignant peripheral nerve sheath tumors in neurofibromatosis type 1 using diffusion-weighted MRI. *Neurooncol Adv*. 2024 Feb 9;6(1):vdae021. doi: 10.1093/noajnl/vdae021.

Ristow I, Riedel C, Lenz A, Well L, Adam G, Panuccio G, Kölbel T, Bannas P. Current Imaging Strategies in Patients with Abdominal Aortic Aneurysms. *Rofo*. 2024 Jan;196(1):52-61. English. doi: 10.1055/a-2119-6448.

Ristow I, Well L, Wiese NJ, Warncke M, Tintelnot J, Karimzadeh A, Koehler D, Adam G, Bannas P, Sauer M. Tumor Response Evaluation Using iRECIST: Feasibility and Reliability of Manual Versus Software-Assisted Assessments. *Cancers (Basel)*. 2024 Feb 29;16(5):993. doi: 10.3390/cancers16050993.

Scheffler K, Boberg M, Knopp T. Solving the MPI reconstruction problem with automatically tuned regularization parameters. *Physics in Medicine and Biology*. 2024;69(4):045024.

Schmalhofer ML, Farschtschi S, Kluwe L, Mautner VF, Adam G, Well L, Ristow I. Whole-body MRI-based long-term evaluation of pediatric NF1 patients without initial tumor burden with evidence of newly developed peripheral nerve sheath tumors. *Orphanet J Rare Dis*. 2024 Nov 4;19(1):412. doi: 10.1186/s13023-024-03420-6. PMID: 39497113.

Schultz V, Hedderich DM, Schmitz-Koep B, Schinz D, Zimmer C, Yakushev I, Apostolova I, Ozden C, Opfer R, Buchert R. Removing outliers from the normative database improves regional atrophy detection in single-subject voxel-based morphometry. *Neuroradiology*. 2024 Apr; 66(4): 507-19. doi:10.1007/s00234-024-03304-3

Shao K, Hu X, Kleineidam L, Stark M, Altenstein S, Amthauer H, Boecker H, Buchert R, Buerger K, Butryn M, Cai Y, Cai Y, Cosma NC, Chen G, Chen Z, Daamen M, Drzezga A, Duzel E, Essler M, Ewers M, Fliessbach K, Gaertner FC, Glanz W, Guo T, Hansen N, He B, Janowitz D, Kilimann I, Krause BJ, Lan G, Lange C, Laske C, Li Y, Li R, Liu L, Lu J, Meng F, Munk MH, Peters O, Perneczky R, Priller J, Ramirez A, Rauchmann BS, Reimold M, Rominger A, Rostamzadeh A, Roy-Kluth N, Schneider A, Spottke A, Spruth EJ, Sun P, Teipel S, Wang X, Wei M, Wei Y, Wiltfang J, Yan S, Yang J, Yu X, Zhang M, Zhang L, Delcode study group Ssg, Wagner M, Jessen F, Han Y, Kuhn E. Amyloid and SCD jointly predict cognitive decline across Chinese and German cohorts. *Alzheimers Dement*. 2024 Sep; 20(9): 5926-39. doi:10.1002/alz.14119

Spitta G, Gleich T, Rosenthal A, Schubert F, Aydin S, Heinz A, Buchert R, Gallinat J. Correlation of striatal dopamine D2/3 receptor availability with GABA level in the anterior cingulate cortex in healthy controls but not in alcohol-dependent subjects and individuals at high risk: A multimodal magnetic resonance spectroscopy and positron emission tomography study. *Addict Biol*. 2024 Jun; 29(6): e13424. doi:10.1111/adb.13424

Streckenbach A, Lübke AM, Well L. Multisystemische Langerhanszell-Histiozytose mit Beteiligung der Skelettmuskulatur [Multisystemic Langerhans cell histiocytosis with involvement of skeletal muscles]. *Rofo*. 2024 Sep 18. German. doi: 10.1055/a-2407-0579.

Streckenbach A, Schubert N, Streckenbach F, Dust T, Ngo NT, Fiehler J, Munz M, Hueners I, Schneider P, Frenzel T, Gargioni E, Wegner M, Chin SJ, Well L, Adam G, Meyer M. Current State and Outlook in Medical 3D Printing and the Role of Radiology. *Rofo*. 2024 Oct 30. English, German. doi: 10.1055/a-2436-7185.

Stumme F, Steffens N, Steglich B, Mathies F, Nawrocki M, Sabihi M, Soukou-Wargalla S, Goke E, Kempfski J, Frundt T, Weidemann S, Schramm C, Gagliani N, Huber S, Bedke T. A protective effect of inflammatory bowel disease on the severity of sclerosing cholangitis. *Front Immunol.* 2024; 15(1307297). doi:10.3389/fimmu.2024.1307297

Thieben F, Foerger F, Mohn F, Hackelberg N, Boberg M, Scheel J-P, Möddel M, Graeser M, Knopp T. System characterization of a human-sized 3D real-time magnetic particle imaging scanner for cerebral applications. *Communications Engineering.* 3(1);47:1-17.

Tsanda A, Nickisch H, Wissel T, Klinder T, Knopp T, Grass M. Dose robustness of deep learning models for anatomic segmentation of computed tomography images. *Journal of Medical Imaging.* 2024;11(4):044005–044005.

Wegner F, Heinrichs H, Stahlmann K, Molwitz I, Keller-Yamamura S, Kloeckner R, Barkhausen J, Bäuerle T, Cyran CC, Dietzel M, Eisenblätter M, Hilger I, Jung C, Schick F, Kiessling F, Bannas P. Motivation and success factors in radiological research in Germany - results of a survey by the Methodology and Research Working Group of the German Radiological Society. *Rofo.* 2024 Jul 25. English, German. doi: 10.1055/a-2350-0023.

In Kooperation mit anderen Einrichtungen

Ali Z, Zhang Y, Kaul MG, Truong B, Bhanot D, Adam G, Li Y, Wei H. Structural control of magnetic nanoparticles for positive nuclear magnetic resonance imaging. *NUCL SCI TECH* (2024) 35;168. doi.org/10.1007/s41365-024-01527-w

Ambrosini F, Falkenbach F, Budaus L, Steuber T, Graefen M, Koehler D, Knipper S, Maurer T. Comparative analysis of robot-assisted and open approach for PSMA-radioguided surgery in recurrent prostate cancer. *Eur J Nucl Med Mol Imaging.* 2024 Aug; 51(10): 3079-88. doi:10.1007/s00259-023-06460-5

Bacmeister L, Cavus E, Bohnen S, Tahir E, Wolf H, Buellbach A, Heidenreich A, Haacke VK, Weber S, Hilgendorf I, Zeller T, Ojeda F, Radunski UK, Lund GK, Adam G, Blankenberg S, Westermann D, Muellerleile K, Lindner D. Serum Concentrations of Matrix Metalloproteinase-1 and Procollagen Type I Carboxy Terminal Propeptide Discriminate Infarct-Like Myocarditis and Non-ST-Segment-Elevation Myocardial Infarction. *J Am Heart Assoc.* 2024 Jul 16;13(14):e034194. doi: 10.1161/JAHA.124.034194. Epub 2024 Jul 11. PMID: 38989835; PMCID: PMC11292779.

Bäuerle T, Dietzel M, Pinker K, Bonekamp D, Zhang KS, Schlemmer HP, Bannas P, Cyran CC, Eisenblätter M, Hilger I, Jung C, Schick F, Wegner F, Kiessling F. Identification of impactful imaging biomarker: Clinical applications for breast and prostate carcinoma. *Rofo.* 2024 Apr;196(4):354-362. English, German. doi: 10.1055/a-2175-4446

Beitzen-Heineke A, Rolling CC, Seidel C, Erley J, Molwitz I, Muellerleile K, Saering D, Senftinger J, Börschel N, Engel NW, Bokemeyer C, Adam G, Tahir E, Chen H. Long-term cardiotoxicity in germ cell cancer survivors after platinum-based chemotherapy: cardiac MR shows impaired systolic function and tissue alterations. *Eur Radiol.* 2024 Jun;34(6):4102-4112. doi: 10.1007/s00330-023-10420-w.

Bhattacharya D, Becker BT, Behrendt F, Beyersdorff D, Petersen E, Petersen M, Cheng B, Eggert D, Betz C, Schläefer A, Hoffmann AS. Computer-Aided Diagnosis of Maxillary Sinus

Anomalies: Validation and Clinical Correlation. *Laryngoscope*. 2024 Sep;134(9):3927-3934. doi: 10.1002/lary.31413. Epub 2024 Mar 23.

Bhattacharya D, Behrendt F, Becker BT, Maack L, Beyersdorff D, Petersen E, Petersen M, Cheng B, Eggert D, Betz C, Hoffmann AS, Schlaefer A. Self-supervised learning for classifying paranasal anomalies in the maxillary sinus. *Int J Comput Assist Radiol Surg*. 2024 Sep;19(9):1713-1721. doi: 10.1007/s11548-024-03172-5.

Bhattacharya D, Behrendt F, Becker BT, Beyersdorff D, Petersen E, Petersen M, Cheng B, Eggert D, Betz C, Hoffmann AS, Schlaefer A. Multiple instance ensembling for paranasal anomaly classification in the maxillary sinus. *Int J Comput Assist Radiol Surg*. 2024 Feb;19(2):223-231. doi: 10.1007/s11548-023-02990-3. Epub 2023 Jul 21.

Cavus E, Schneider JN, di Carluccio E, Ziegler A, Haack A, Ojeda F, Chevalier C, Jahnke C, Riedl KA, Radunski UK, Twerenbold R, Kirchhof P, Blankenberg S, Adam G, Tahir E, Lund GK, Muellerleile K. Unrecognized myocardial scar by late-gadolinium-enhancement cardiovascular magnetic resonance: Insights from the population-based Hamburg City Health Study. *J Cardiovasc Magn Reson*. 2024 Summer;26(1):101008. doi: 10.1016/j.jocmr.2024.101008. Epub 2024 Feb 9. PMID: 38341145; PMCID: PMC10944257.

Chen H, Erley J, Muellerleile K, Saering D, Jahnke C, Cavus E, Schneider JN, Blankenberg S, Lund GK, Adam G, Tahir E, Sinn M. Contrast-enhanced cardiac MRI is superior to non-contrast mapping to predict left ventricular remodeling at 6 months after acute myocardial infarction. *Eur Radiol*. 2024 Mar;34(3):1863-1874. doi: 10.1007/s00330-023-10100-9. Epub 2023 Sep 4. PMID: 37665392; PMCID: PMC10873445.

Dalos D, Marshall PR, Lissy M, Maas KJ, Henes FO, Kaul MG, Kleinertz H, Frings J, Krause M, Frosch KH, Welsch GH. Influence of leg axis alignment on MRI T2* mapping of the knee in young professional soccer players. *BMC Musculoskelet Disord*. 2024 Feb 15;25(1):144.

Delsmann M, Delsmann J, Jandl NM, Maas KJ, Beil FT, Amling M, Henes FO, Rolvien T, Spink C. Advantages of cone beam computed tomography for evaluation of subchondral insufficiency fractures of the knee compared to MRI. *Sci Rep*. 2024 Jul 3;14(1):15278.

Eden T, Schaffrath AZ, Wesolowski J, Stähler T, Tode N, Richter N, Schöfer W, Hambach J, Hermans-Borgmeyer I, Woens J, Le Gall CM, Wendler S, Linke-Winnebeck C, Stobbe M, Budnicki I, Wanney A, Heitz Y, Schimmelpfennig L, Schweitzer L, Zimmer D, Stahl E, Seyfried F, Gebhardt AJ, Dieckow L, Riecken K, Fehse B, Bannas P, Magnus T, Verdoes M, Figdor CG, Hartlepp KF, Schleer H, Fünér J, Tomas NM, Haag F, Rissiek B, Mann AM, Menzel S, Koch-Nolte F. Generation of nanobodies from transgenic 'LamaMice' lacking an endogenous immunoglobulin repertoire. *Nat Commun*. 2024 Jun 3;15(1):4728. doi: 10.1038/s41467-024-48735-x.

Falkenbach F, Ahmad-Sterkau F, Kachanov M, Beyersdorff D, Koehler D, Ambrosini F, Ortner G, Maurer T, Graefen M, Budaus L. Bimodal imaging: Detection rate of clinically significant prostate cancer is higher in MRI lesions visible to transrectal ultrasound. *Prostate*. 2024 Dec;84(16): 1448-55. doi:10.1002/pros.24785

Falkenbach F, Ambrosini F, Kachanov M, Ortner G, Maurer T, Köhler D, Beyersdorff D, Graefen M, Budäus L. PSA-density, DRE, and PI-RADS 5: potential surrogates for omitting biopsy? *World J Urol*. 2024 Mar 20;42(1):182. doi: 10.1007/s00345-024-04894-6.

Falkenbach F, Schmalhofer ML, Tian Z, Mazzucato G, Karakiewicz PI, Graefen M, Knipper S, Budaus L, Koehler D, Maurer T. Size and SUV(max) define the contribution of nodal metastases to PSA in oligorecurrent prostate cancer. *Prostate*. 2024 Oct 9. doi:10.1002/pros.24806

Fard-Aghaie MH, Stern L, Ghadban T, Apostolova I, Lehnert W, Klutmann S, Hackert T, Izbicki JR, Li J, von Kroge PH, Heumann A. Decreased mebrotfenin uptake in patients with non-colorectal liver tumors requiring liver volume augmentation-a single-center analysis. *Langenbecks Arch Surg*. 2024 Mar 11; 409(1): 92. doi:10.1007/s00423-024-03280-5

Fritsch LM, Reinshagen K, Apostolidou S, Singer D, Peters U, de Sousa MT, Herrmann J, Deindl P. Bilateral Diaphragmatic Agenesis in Cornelia de Lange Syndrome. *Z Geburtshilfe Neonatol*. 2024 Aug;228(4):394-395. German. doi: 10.1055/a-2231-3349. Epub 2024 Jan 29. PMID: 38286414.

Gerwing M*, Ristow I*, Afat S, Juchems MS, Wessling J, Schreyer AG, Ringe KI, Othman A, Paul R, Persigehl T*, Eisenblätter M*. Standardized diagnosis of gastrointestinal tumors: an update regarding the situation in Germany. *Rofo*. 2024 Oct 16. English, German. doi: 10.1055/a-2378-6451. Epub ahead of print.

Heimer MM, Dikhtyar Y, Hoppe BF, Herr FL, Stüber AT, Burkard T, Zöller E, Fabritius MP, Unterrainer L, Adams L, Thurner A, Kaufmann D, Trzaska T, Kopp M, Hamer O, Maurer K, Ristow I, May MS, Tufman A, Spiro J, Brendel M, Ingrisich M, Ricke J, Cyran CC. Software-assisted structured reporting and semi-automated TNM classification for NSCLC staging in a multicenter proof of concept study. *Insights Imaging*. 2024 Oct 28;15(1):258. doi: 10.1186/s13244-024-01836-z.

Hergert B, Tavares de Sousa M, Herrmann J, Bannas P, Huber L, Götz S, Hecher K, Adam G, Dargahpour Barough M, Schoennagel BP. A comparative study of fetal cardiovascular assessment: utilizing Doppler ultrasound gated MRI and echocardiography with detailed analysis using five axial views. *Front Cardiovasc Med*. 2024 Sep 23;11:1408071. doi: 10.3389/fcvm.2024.1408071. PMID: 39376620.

Inhestern L*, Herrmann J*, Schürmann J, Meister RL, Nawka MT, Mynarek M, Linhart D, Bergelt C. Child-centeredness in pediatric magnetic resonance imaging (MRI): Information needs and experiences of children requiring MRI and their parents. *Child Care Health Dev*. 2024 Jan;50(1):e13157. doi: 10.1111/cch.13157.

Knipper S, Lischewski F, Koehler D, Eiber M, van Leeuwen FWB, de Barros H, Berrens AC, Zuur L, van Leeuwen PJ, van der Poel H, Ambrosini F, Falkenbach F, Budaus L, Steuber T, Graefen M, Tennstedt P, Gschwend JE, Horn T, Heck MM, Maurer T. Biochemical Response of <0.1 ng/ml Predicts Therapy-free Survival of Prostate Cancer Patients following Prostate-specific Membrane Antigen-targeted Salvage Surgery. *Eur Urol Oncol*. 2024 May 9. doi:10.1016/j.euo.2024.04.019

Le M, Wenke K, Herrmann J, Singer D, Lange M. Ein seltener Fall: Kasabach-Merritt-Syndrom bei VACTERL-Assoziation [A Uncommon Case: Kasabach-Merritt syndrome with VACTERL Association]. *Z Geburtshilfe Neonatol*. 2024 Jun;228(3):298-302. German. doi: 10.1055/a-2262-8607. Epub 2024 Mar 1. PMID: 38428835.

Lenz A, Bahr F, Riedel C, Wright F, Sinn M, Schuett M, Well L, Zhang S, Adam G, von Kodolitsch, Y, Schoennagel B, Bannas P. Clusteranalyse von 100 Marfan Patienten mittels 4D Fluss MRT und Z-Scores der thorakalen Aorta. *Rofo* 2024; 196(S 01): S67. doi: 10.1055/s-0044-1781664

Lenz A, Bahr F, Riedel C, Wright F, Sinn M, Zhang S, Schuett M, Well L, Huber L, Adam G, von Kodolitsch, Y, Schoennagel B, Bannas P. Identification of distinct Marfan patient subgroups by cluster analysis based on aortic 4D flow MRI and Z-score. *RSNA 2024*

Lopes L, Jiao F, Xue S, Pyka T, Krieger K, Ge J, Xu Q, Fahmi R, Spottiswoode B, Soliman A, Buchert R, Brendel M, Hong J, Guan Y, Bassetti CLA, Rominger A, Zuo C, Shi K, Wu P. Dopaminergic PET to SPECT domain adaptation: a cycle GAN translation approach. *Eur J Nucl Med Mol Imaging*. 2024 Nov 19. doi:10.1007/s00259-024-06961-x

Lund GK, Leptin S, Ragab H, Sinn MR, Fierenz A, Cavus E, Muellerleile K, Chen H, Erley J, Harms P, Kisters A, Starekova J, Adam G, Tahir E. Prognostic Relevance of Ischemic Late Gadolinium Enhancement in Apparently Healthy Endurance Athletes: A Follow-up Study Over 5 years. *Sports Med Open*. 2024 Jan 29; 10(1): 13. doi:10.1186/s40798-024-00680-1

Manini C, Hüllebrand M, Walczak L, Nordmeyer S, Jarmatz L, Kuehne T, Stern H, Meierhofer C, Harloff A, Erley J, Kelle S, Bannas P, Trauzeddel RF, Schulz-Menger J, Hennemuth A. Impact of training data composition on the generalizability of convolutional neural network aortic cross-section segmentation in four-dimensional magnetic resonance flow imaging. *J Cardiovasc Magn Reson*. 2024 Aug 8;26(2):101081. doi: 10.1016/j.jocmr.2024.101081.

Mehring G, Steinbach C, Pose R, Knipper S, Koehler D, Werner S, Riethdorf S, von Amsberg G, Ambrosini F, Maurer T. Limited prognostic role of routine serum markers (AP, CEA, LDH and NSE) in oligorecurrent prostate cancer patients undergoing PSMA-radioguided surgery. *World J Urol*. 2024 Apr 24; 42(1): 256. doi:10.1007/s00345-024-04948-9

Möhring L, Gläscher J. Protocol for predicting multivariate change of brain patterns using model-informed fMRI activation. *STAR Protoc*. 2024 Jun 21; 5(2):102978. doi: 10.1016/j.xpro.2024.102978. Epub 2024 Mar 27. PMID: 38547125; PMCID: PMC11257077.

Piecha F, Jahn BV, Köntopf J, Koop A, Ozga AK, Al-Jawazneh A, Harberts A, Riedel C, Buggisch P, Benten D, Hübener P, Adam G, Huber S, Lohse AW, Bannas P, Kluwe J. Recompensation of Liver Cirrhosis by TIPS Reduces Epithelial Cell Death Markers, Translating Into Improved Clinical Outcome. *Liver Int*. 2024 Nov 12. doi: 10.1111/liv.16156

Piecha F, Vonderlin J, Frühhaber F, Graßl JK, Ozga AK, Harberts A, Benten D, Hübener P, Reeh M, Riedel C, Bannas P, Izbicki JR, Adam G, Huber S, Lohse AW, Kluwe J. Preoperative TIPS and in-hospital mortality in patients with cirrhosis undergoing surgery. *JHEP Rep*. 2023 Sep 23;6(1):100914. doi: 10.1016/j.jhepr.2023.100914

Piepenbrink L, Herrmann J, Jahn M, Klinkenberg D, Diehl T, Singer D, Lange M. Pneumoperikard bei einem reifen Neugeborenen. *Z Geburtshilfe Neonatol*. 2024 Dec;228(6):544-545. German. doi: 10.1055/a-2292-9046. Epub 2024 Apr 17. PMID: 38631378.

Ricklefs FL, Wollmann K, Salviano-Silva A, Drexler R, Maire CL, Kaul MG, Reimer R, Schüller U, Heinemann S, Kolbe K, Mummert T, Glatzel M, Peine S, Gempt J, Westphal M, Dührsen L, Lamszus K. Circulating extracellular vesicles as biomarker for diagnosis, prognosis, and monitoring in glioblastoma patients. *Neuro-Oncology* (2024) 26;7:1280–1291. doi.org/10.1093/neuonc/noae068

Ritter K, Baalman M, Dolderer C, Ritz U, Schäfer MKE. Brain–Bone Crosstalk in a Murine Polytrauma Model Promotes Bone Remodeling but Impairs Neuromotor Recovery and

Anxiety-Related Behavior. *Biomedicines*. 2024 Jul 12(7):1399. doi: 10.3390/biomedicines12071399.

Schmidt BC, Leiderer MT, Amin T, Viol F, Huber S, Henes FO, Schrader J. Does gamma-glutamyltransferase correlate with liver tumor burden in neuroendocrine tumors? *Endocrine*. 2024 Feb;83(2):511-518.

Tavares de Sousa M, Schönagel BP, Denecke J, Herrmann J. Prenatal imaging - role of fetal MRI. *Rofo*. 2024 Dec 6. English, German. doi: 10.1055/a-2357-6997. Epub ahead of print. PMID: 39642925

Wegner F, Heinrichs H, Stahlmann K, Molwitz I, Keller-Yamamura S, Kloeckner R, Barkhausen J, Bäuerle T, Cyran CC, Dietzel M, Eisenblätter M, Hilger I, Jung C, Schick F, Kiessling F, Bannas P. Motivation and success factors in radiological research in Germany - results of a survey by the Methodology and Research Working Group of the German Radiological Society. *Rofo*. 2024 Jul 25. English, German. doi: 10.1055/a-2350-0023.

Weinrich JM, Well L. Challenging diagnosis: unveiling extensive multisystemic sarcoidosis with musculoskeletal involvement through a clinically ambiguous soft tissue mass in the palm. *Skeletal Radiol*. 2024 Sep 17. doi: 10.1007/s00256-024-04787-0.

Editorials

Molwitz I, Boehm I. Increasing joy of reading and the impact of scientific articles - the benefits of RadioComics. *Eur J Radiol*. 2024 Nov 28;183:111862. doi: 10.1016/j.ejrad.2024.111862. Epub ahead of print.

Molwitz I. Joy at work: how to build a happy and resilient next generation of radiologists. *Eur Radiol*. 2024 Jan;34(1):692-694. doi: 10.1007/s00330-023-10146-9.

Buchbeiträge

Buchert R. Radionuclide Imaging of Regional Cerebral Blood Flow. In: Sack I, T. S, editors. *Quantification of Biophysical Parameters in Medical Imaging*: Springer; 2024. p. 499-520.

Vorträge/Poster mit zitierbarem Abstract

Apostolova I, Hipp N, Young KL, Klutmann S, Hardewig I, Koglin N, Gallinat J, Buchert R. Increased off-target binding of [18F]florbetaben in the skull of women with reduced skull density. *DGN Jahrestagung, 2024, Poster: P55*

Apostolova I, Karimzadeh A, Klutmann S, Meyer PT, Buchert R. Interpretability of dopamine transporter SPECT in patients under venlafaxine. *DGN Jahrestagung, 2024, WIS-Vortrag:Neurologie*.

Aydemir DG, Well L, Erley J, Molwitz I, Piecha F, Drolz A, et al. Evaluation der Sarkopenie als Prädiktor der Mortalität von Patient:innen mit Leberzirrhose bei frühzeitiger Anlage eines transjugulären intrahepatischen portosystemischen Shunts (early TIPS). Diagnostische und Interventionelle Radiologie und Nuklearmed. Universitätsklinikum Hamburg-Eppendorf. DOI: 10.1055/s-0044-1781540.

Baalmann M, Henes FO. Morbus Jüngling – Eine wichtige Differentialdiagnose der pathologischen Fraktur am Finger. RöFo 2024; 196(S01): 121 - 121. doi: 10.1055/s-0044-1781750

Erley, J., Naimi, L., Hancken-Pauschinger C., ..., Tahir, E (2024). Auswirkungen der Leberzirrhose auf Herzstruktur und Funktion: Erste Eindrücke aus der CMRLTX-Studie. Deutscher Röntgenkongress 2024, Wiesbaden. doi: 10.1055/s-0044-1781514

Foerger F, Hackelberg N, Boberg M, Möddel M, Thieben F, Mohn F, Knopp T. Single-shot magnetic field measurements for MPI. International Workshop on Magnetic Particle Imaging (IWMPI), International Journal on Magnetic Particle Imaging. 2024;10.

Gersdorf DY, and Henes FO. Progrediente Atembeschwerden nach COVID-Erkrankung: Erstdiagnose einer isolierten unilateralen Pulmonalarterienagenese im Erwachsenenalter. RöFo 2024; 196(S01): 119 - 119. doi: 10.1055/s-0044-1781747

Giertsch T, Jerosch-Herold M, Schneider P, Voges I, Gabbert D, Müller G, Peldschus K, Lund G, Rickers C. Left Ventricular Remodeling Based on Myocardial Extracellular Volume (ECV) in Children and Young Adults with Aortic Coarctation. Journal of Cardiovascular Magnetic Resonance, Spring 2024, Volume 26, Supplement 1, 100474, S1-926.

Grosser M, Möddel M, Knopp T. Exploiting the Fourier neural operator for parameter identification in MPI. International Workshop on Magnetic Particle Imaging (IWMPI), International Journal on Magnetic Particle Imaging, 2024;10.

Götz S, Adam G, Köhler D. Ein seltener Zufallsbefund bei atraumatischen Schmerzen – das solitäre Plasmozytom des Knochens. RöFo Fortschritte auf dem Gebiet der Röntgenstrahlen und der bildgebenden Verfahren. Vol 196. No. S 01. 2024

Hackelberg N, Grosser M, Tsanda A, Mohn F, Scheffler K, Möddel M, Knopp T. Regularizedleast-squares.jl: Modality agnostic Julia package for solving regularized least squares problems. International Workshop on Magnetic Particle Imaging (IWMPI), International Journal on Magnetic Particle Imaging. 2024;10.

Hancken-Pauschinger C, G Lund G, Rickers C, Herrmann J, Peldschus K, Adam G, Tahir E, Erley J. Linksventrikulärer Strain als Verlaufsparmeter der Pumpfunktion in der kardialen Magnetresonanztomographie bei Erwachsenen mit operativ korrigierter Transposition der großen Arterien. Röko, 2024.

Hancken-Pauschinger C, G Lund G, Rickers C, Herrmann J, Peldschus K, Adam G, Tahir E, Erley J. Cardiac magnetic resonance long-term follow-up analysis of cardiac and valvular function in adults with surgically corrected transposition of the great vessels. RSNA, 2024.

Iske M, Albers H, Knopp T, Kluth T. A large dataset for model-based image reconstruction and operator correction in MPI. International Workshop on Magnetic Particle Imaging (IWMPI). International Journal on Magnetic Particle Imaging. 2024; 10.

Karimzadeh A, Salimi K, Voges B, Apostolova I, Sauvigny T, Lanz M, Klutmann S, Stodieck S, Meyer PT, Buchert R. Very short post-injection seizure duration is associated with reduced power of ictal brain perfusion SPECT to lateralize the seizure onset zone. DGN Jahrestagung, 2024, WIS-Vortrag:Neurologie.

Kluth T, Albers H, Maass M, Droigk C, Boberg M, Thieben F, Scheffler K, Knopp T. Recent progress in model-based reconstruction using approximate particle models and low calibration effort. International Workshop on Magnetic Particle Imaging (IWMPI). International Journal on Magnetic Particle Imaging. 2024;10.

Knopp T, Mohn F, Foerger F, Thieben F, Hackelberg N, Faltinath J, Tsanda A, Boberg M, Möddel M. Empirical Study of Magnet Distance on Magneto-Mechanical Resonance Frequency. Proceedings of the BMT2024, 58th Annual Conference of the German Society for Biomedical Engineering. 2024.

Maass M, Droigk C, Albers H, Scheffler K, Mertins A, Kluth T, Knopp T. Magnetic particle imaging with non-oriented immobilized particles: Why the Langevin model of paramagnetism is sufficient. International Workshop on Magnetic Particle Imaging (IWMPI). International Journal on Magnetic Particle Imaging. 2024;10.

Möddel M, Jensen L, Boberg M, Knopp T. Comparison of reconstruction methods for elongated multi-patch sequences in magnetic particle imaging. International Workshop on Magnetic Particle Imaging (IWMPI). International Journal on Magnetic Particle Imaging. 2024;10.

Mohn F, Foerger F, Thieben F, Möddel M, Knopp T, Graeser M. Trade-off between power consumption and receive signal strength for inductively coupled transmit-receive circuits in MPI. International Workshop on Magnetic Particle Imaging (IWMPI). International Journal on Magnetic Particle Imaging. 2024;10.

Mohn F, Szwargulski P, Kaul MG, Graeser M, Mummert T, Krishnan KM, Knopp T, Adam G, Salamon J, Riedel C. In vitro detection of gastrointestinal bleeding using single- and multi-contrast MPI. International Workshop on Magnetic Particle Imaging (IWMPI). International Journal on Magnetic Particle Imaging. 2024;10.

Molwitz I, Campbell GM, Schubert N, Busch A, Adam G, Fischer R, Yamamura J. Muscular Fat Fraction quantified with Dual-layer Detector Spectral-CT as a new Imaging Biomarker of Frailty. (Book of Abstracts noch nicht erschienen.)

Nawwas L, Möddel M, Knopp T. Influence of the system matrix on channel leakage artifacts in multi-contrast MPI. International Workshop on Magnetic Particle Imaging (IWMPI). International Journal on Magnetic Particle Imaging. 2024;10.

Nawwas L, Möddel M, Knopp T. Multi-contrast MPI channel leakage reduction using a two-step measurement and reconstruction method. International Workshop on Magnetic Particle Imaging (IWMPI). International Journal on Magnetic Particle Imaging. 2024;10.

Nawwas L, Möddel M, Knopp T. Sparse Kaczmarz for convergence speed-up in multi-contrast magnetic particle imaging. IEEE International Symposium on Biomedical Imaging (ISBI). 2024:1–4.

Ragab H, Westhäußer F, Ernst A, Yamamura J, Fuhlert P, Zimmermann M, Sauerbeck J, Shenaf F, Özden C, Weidmann A, Adam G, Bonn S, Schramm C KI-gestützte Diagnostik der

primär sklerosierenden Cholangitis anhand der 2D-MRCP. Deutscher Röntgenkongress 2024. DOI 10.1055/s-0044-1781491

Riedel C, Mohn F, Szwargulski P, Kaul M, Gräser M, Mummert T, Knopp T, Adam G, Salamon J. Detektion gastrointestinaler Blutungen ex vivo mittels Magnetic Particle Imaging. RÖFo-Fortschritte auf dem Gebiet der Röntgenstrahlen und der bildgebenden Verfahren, Georg Thieme Verlag, 2024;196(9).

Ristow I, Riedel C, Lenz A, Zhang S, Kölbl T, Panuccio G, Adam G, Schönagel, Bannas P: Comparison of 4D flow MRI-derived aortic flow profiles in patients with abdominal aortic aneurysms below and above intervention threshold, ECR 2024, doi: 10.26044/ecr2024/C-13920.

Scheffler K, Meyn L, Foerger F, Boberg Möddel M, Knopp T. Ellipsoidal harmonic expansions for efficient approximation of magnetic fields in medical imaging. International Workshop on Magnetic Particle Imaging (IWMPI). International Journal on Magnetic Particle Imaging. 2024;10.

Schmalhofer ML, Adam G, Köhler D. Der unübliche Verdächtige – akute Granulomatose mit Polyangiitis als seltene Differentialdiagnose einer Pneumonie." RÖFo Fortschritte auf dem Gebiet der Röntgenstrahlen und der bildgebenden Verfahren. Vol. 196. No. S 01. Georg Thieme Verlag, 2024

Streckenbach A, Heidrich I, Gebhardt C, Adam G, Meyer M. Korrelation zwischen zirkulierender Tumor DNA und CT-Tumorvolumen bei Patienten mit fortgeschrittenem Malignen Melanom unter Immuntherapie. Book of abstracts RÖKo 2024. doi: 10.1055/s-0044-1781612

Striegler M, Ragab H. Exophthalmus und Mydriasis nach Katarakt-OP – Zufallsbefund einer seltenen orbitalen Manifestation der Erdheim-Chester-Erkrankung. RÖFo. 2024;196(Suppl 1):A1-A2. doi:10.1055/s-0044-1781746.

Thieben F, Albers H, Mohn F, Foerger F, Boberg M, Scheffler K, Möddel M, Kluth T, Knopp T. Experimental parameter calibration of the scanner model for model-based MPI. International Workshop on Magnetic Particle Imaging (IWMPI). International Journal on Magnetic Particle Imaging. 2024;10.

Tsanda A, Jürß P, Hackelberg N, Grosser M, Möddel M, Knopp T. Extension of the Kaczmarz algorithm with a deep plug-and-play regularizer. International Workshop on Magnetic Particle Imaging (IWMPI). International Journal on Magnetic Particle Imaging, 2024;10.

Tsanda A, Nickisch H, Wissel T, Klinder T, Knopp T, Grass M. On TotalSegmentator's Performance on Low-Dose CT Images. SPIE Medical Imaging 2024: Image Processing. 2024;12926:86–89.

Stipendien

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Auszeichnungen und Preise

Karimzadeh A. Alavi-Mandell Award

Schmalhofer LM. Young Investigator Research Award des Neurofibromatosis Young Investigators' Forums

Ristow I. Horst Seils Preis 2024, Norddeutsche Röntgengesellschaft

Patente

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Drittmittel

Bannas P, Girdauskas E. Towards a more standardized bicuspid aortic valve repair: Impact of active aortic annulus remodeling on 4D MRI flow patterns and functional outcome. Else-Kröner-Fresenius-Stiftung

Buchert R. ZIM-Projekt (KK5016702LU2): Intelligente radiologische Befundung zur Erzeugung strukturierter und leitlinien-konformer Befundbriefe unter Einbeziehung natürlicher Sprache und KI-gestützter Bildanalyse. Laufzeit: 01.03.2023-30.06.2025.

Schroer C, Knopp T. Doktorandenstelle in der DASHH Graduiertenschule, Thema: Combined Reconstruction Approach for Holotomography: Joint Phase Retrieval and Tomography. Fördergeber: Helmholtz-Gesellschaft.

Molwitz I. DFG-Sachbeihilfe (Ko-Antragssteller Prof. Werner, Institut für Angewandte Medizininformatik, UKE; PD Meine, Fraunhofer Mevis Bremen).