Publikationen 2007

Ahmed S, Strauss L, Dimitrakopoulou-Strauss A, Peter J
Calculation of the absorbed doses for remnant thyroid tissues after thyroidectomy
Journal of Nuclear Medicine 34 : S127 (2007)

Bartling SH, Stiller W, Semmler W, Kiessling F
Small Animal Computed Tomography Imaging
Curr Med Imaging Rev 3 : 45-49 (2007)

Böttger T, Grünewald K, Schöbinger M, Fink C, Risse F, Kauczor HU, Meinzer HP, Wolf I
Implementation and evaluation of a new workflow for registration and segmentation of pulmonary MRI data for regional lung perfusion assessment.
Physics in Medicine and Biology 52 : 1261-1275 (2007)

Eichinger M, Puderbach M, Smith HJ, Tetzlaff R, Kopp-Schneider A, Bock M, Biederer J, Kauczor HU.
Abstract Magnetic resonance-compatible-spirometry: principle, technical evaluation and application.
Eur Respir J 30 : 972-979 (2007)

Ganten M, Krautter U, Hosch W, Hansmann J, von Tengg-Kobligk H, Delorme S, Kauczor H-U, Kauffmann G, Bock M
Age related changes of human aortic distensibility: evaluation with ECG-gated CT.
European Radiology 17 (3) : 701-708 (2007)

Hillengass J, Wasser K, Delorme S, Kiessling F, Zechmann C, Benner A, Kauczor H.U, Ho AD, Goldschmidt H, Moehler TM
Lumbar bone marrow microcirculation measurements from dynamic contrast-enhanced magnetic resonance imaging is a predictor of event-free survival in progressive multiple myeloma
Clinical Cancer Research 13 : 475-481 (2007)

Hosch W, Bock M, Libicher M, Ley S, Hegenbart U, Dengler TJ, Katus HA, Kauczor HU, Kauffmann GW, Kristen AV
MR-relaxometry of myocardial tissue: significant elevation of T1 and T2 relaxation times in cardiac amyloidosis.
Investigative Radiology 42 : 636-642 (2007)

Kiessling F, Jugold M, Woenne EC, Brix G
Non-invasive assessment of vessel morphology and function in tumors by magnetic resonance imaging
Eur Radiol 17 : 2136-2148 (2007)

Kiessling F, Morgenstern B, Zhang C
Contrast agents and applications to assess tumor angiogenesis in vivo by magnetic resonance imaging
Curr Med Chem 14 : 77-91 (2007)

Kirsch S, Bachert P
Diffraction-like phenomena in a periodic magnetization distribution at 1.5 T using the distant dipolar

field (DDF).
Journal of Magnetic Resonance 185 : 183-190 (2007)

Ley S, Mereles D, Risse F, Gruenig E, Ley-Zaporozhan J, Tecer Z, Puderbach M, Fink C, Kauczor HU
Quantitative 3D pulmonary MR-perfusion in patients with pulmonary arterial hypertension: correlation with invasive pressure measurements.
Eur Radiol 61 : 251-255 (2007)

Ley S, Puderbach M, Risse F, Ley-Zaporozhan J, Eichinger M, Takenaka D, Kauczor HU, Bock M
Impact of Oxygen Inhalation on the Pulmonary Circulation: Assessment by Magnetic Resonance (MR)-Perfusion and MR-Flow Measurements
Investigative Radiology 42 (5) : 283-290 (2007)

Nielles-Vallespin S, Weber MA, Bock M, Bongers A, Speier P, Combs SE, Wöhrle J, Lehmann-Horn F, Essig M, Schad LR
A 3D Radial Projection Technique with Ultra Short Echo Times for Sodium MRI: Clinical Applications in Human Brain and Skeletal Muscle
Magnetic Resonance in Medicine 57 (1) : 74-81 (2007)

Palmowski M, Kiessling F, Lopez-Benitez R, Kauffmann GW, Hallscheidt P
Preoperative Embolization of a Tumor-Bearing Horseshoe Kidney Via Both Channels of a Concomitant Aortic Dissection
Cardiovasc Intervent Radiol 30 : 501-503 (2007)

Peter J
Bildgebung in der Nuklearmedizin
Zeitschrift für Medizinische Physik 16 : (2007)

Peter J, Semmler W
Fully Integrated Multi-Modality Monte Carlo Simulation Framework for the Radiological Imaging Sciences
Nuclear Instruments and Methods in Physics Research A 580 : 955-959 (2007)

Peter, J, Semmler, W.
A Modular Design Triple-Modality SPECT-CT-ODT Small Animal Imager
European Journal of Nuclear Medicine Molecular Imaging 34 : S158 (2007)

Petr J, Kybic J, Bock M, Müller S, Hlavac V
Parallel Image Reconstruction Using B-spline Approximation (PROBER)
Magnetic Resonance in Medicine 58 : 582-591 (2007)

Rauschenberg J, de Oliveira A, Müller S, Semmler W, Bock M
Ein Algorithmus zur Lokalisation von passiven Markersystemen in der interventionellen Magnetresonanztomographie
Zeitschrift für Medizinische Physik 17 (3) : 180-189 (2007)

Risse F, Boese JM, Hess T, Mory M, Schäfer M, Gebhard MM, Schad LR
An experimental organ model for magnetic resonance imaging
Zeitschrift für Medizinische Physik : 205-211 (2007)

Risse F, Semmler W, Kauczor HU, Fink C
Dual bolus approach to quantitative measurement of pulmonary perfusion by contrast enhanced MRI
Journal of Magnetic Resonance Imaging 24 : 1132-1138 (2007)

Siegler P, Jenne JW, Boese JM, Huber PE, Schad LR
STEAM-Sequenz mit Multi-Echo-Auslese für die statische Magnetresonanz-Elastographie
Zeitschrift für Medizinische Physik 17 : 118-126 (2007)

Stiller W, Kobayashi M, Kazuhiko K, Stampfl U, Richter G, Semmler, W, Kiessling F
Erste Erfahrungen mit einem neuen Niedrigdosis-Mikro-CT
Rofo 179 : 669-675 (2007)

Ulrich M, Wokrina T, Ende G, Lang M, Bachert P:
31P-1H echo-planar spectroscopic imaging of the human brain in vivo.
Magnetic Resonance Imaging 57 : 784-790 (2007)

Wacker FK, Bock M
Magnetresonanztomographie-gestützte endovaskuläre Interventionen
Fortschritte auf dem Gebiet d. Röntgenstrahlen u.d. bildgeb. Verfahren 179 (4) : 355-364 (2007)

Weber M-A, Krakowski-Roosen H, Hildebrandt W, Schröder L, Ionescu I, Krix M, Kinscherf R, Bachert P, Kauczor H-U, Essig M
Assessment of metabolism and microcirculation of healthy skeletal muscles by magnetic resonance and ultrasound techniques.
J. Neuroimaging 17 : 323-331 (2007)

Zechmann CM, Wönne EC, Brix G, Radzwill N, Ilg M, Bachert P, Peschke P, Kirsch S, Kauczor H-U, Delorme S, Semmler W, Kiessling F
Impact of stroma on the growth, microcirculation, and metabolism of experimental prostate tumors.
Neoplasia 9 : 57-67 (2007)

Zhang C, Jugold M, Woenne EC, Lammers T, Morgenstern B, Mueller MM, Zentgraf H, Bock M, Eisenhut M, Semmler W, Kiessling F
Specific targeting of tumor angiogenesis by RGD-conjugated ultrasmall superparamagnetic iron oxide particles using a clinical 1.5-T magnetic resonance scanner
Cancer Research 67 (4) : 1555-1562 (2007)

Zhang C, Wängler B, Morgenstern B, Zentgraf H, Eisenhut M, Untenecker H, Krüger R, Huss R, Seliger C, Semmler W, Kiessling F
Silica- and Alkoxysilane-Coated Ultra Small Superparamagnetic Iron Oxide Particles: a Promising Tool to Label Cells for Magnetic Resonance Imaging
Langmuir 23 : 1427-1434 (2007)

Other Articles

Bachert P
MR Spectroscopy.
In: "Magnetism in Medicine", a handbook Wiley-VCH Verlag, Weinheim Andrä W, Nowak H, eds. (Hrsg), : 456-476 (2007)

Brix G, Griebel J, Delorme S, Kiessling F
Quantification of dynamic microcirculation by MRI and CT: Comparative Analysis of signal-time courses measured in muscle tissue.
Advances in Medical Engineering Springer New York Buzog TM (Hrsg), : 48-52 (2007)

Chen Y, Schulz RB, Peter J, Semmler, W
Observation of Transition from Ballistic to Diffusive Transport in Highly Scattering Turbid Slabs Based on High-Resolution Angle-Resolved Transmission Measurement Technique.
Proceedings of the 6th International Conference on Photonics and Imaging in Biology and Medicine : (2007)

Heiler PM, Schmitter S, Schad LR
A time efficient high resolution multi-echo FLASH sequence.
ISMRM 15 : 1940 (2007)

Kiessling F, Krix M
Imaging of tumor angiogenesis and antiangiogenesis.
Marme D, Fusenig N. Tumor Angiogenesis. Springer, New York: 529-544 (2007)

Laun FB, Stieltjes B, Huff S, Schad LR
Investigations of a DTI-phantom with properties similar to in vivo neuronal tissue.
ISMRM 15 : 1526 (2007)

Laun FB, Stieltjes B, Schad LR
Influence of the Noise Floor: Paradoxical Effects on DTI.
ISMRM 15 : 1594 (2007)

Laun FN, Stieltjes B, Schad LR
Optimale Diffusionswichtung und Gradientenanzahl für isotrope DWI.
Deutsche Gesellschaft für Medizinische Physik 2007 Manser P, Mini R (Hrsg), : 350-351 (2007)

Nagel AM, Weber MA, Schad LR
23Na mit 3D-Radial- und 3D-Cones-Trajektorien.
Deutsche Gesellschaft für Medizinische Physik 2007 Manser P, Mini R (Hrsg), : 12-13 (2007)

Peter J, Schulz RB, Unholtz D, Semmler W
A novel optical detector concept for dedicated and multi-modality in vivo small animal imaging.
Novel Optical Instrumentation for Biomedical Applications III. Progress in Biomedical Optics and Imaging.
Christian D. Depeursinge (Hrsg), 6631 : 10-1 10-8 (2007)

Peter J, Szelpal D, Bock M, Umathum R
Simultaneous Optical and Magnetic Resonance Small Animal Imaging in vivo.
Proceedings of the Joint Molecular Imaging Conference : 134 (2007)

Schad LR
Magnetic Resonance Imaging.
3D Conformal Radiation Therapy - A Multimedia Introduction to Methods and Techniques Springer Schlegel W, Mahr A (Hrsg), : 38-49 (2007)

Schmitter S, Amann M, Schad LR
Benefit of parallel imaging techniques for silent EPI.
ISMRM 15 : 1761 (2007)

Schmitter S, Schad LR
Der Vorteil von parallelen Akquisitionstechniken für die geräuscharme echoplanare Bildgebung.
Deutsche Gesellschaft für Medizinische Physik 2007 Manser P, Mini R (Hrsg), : 350-351 (2007)

Schulz RB, Peter J, Semmler W, D'Andrea C, Valentini G, Cubeddu R, Schweiger M, Arridge S
Applying Time-Dependent Data in Fluorescence Tomography.
ProcOSA Progress in biomedical Optics and Imaging Christian D. Depeursinge (Hrsg), : (2007)

Sohlin MC, Bongers A, Schad LR
Quantitative mapping of oxygen extraction fraction using MRI.
Deutsche Gesellschaft für Medizinische Physik 2007 Manser P, Mini R (Hrsg), : 10-11 (2007)

Weber MA, Stieltjes B, Henze M, Tüttenberg J, Combs SE, Vogt-Schaden M, Meissner M, Remme H, Schad LR, Kauczor HU, Essig M
Comparison of functional MRI- and PET-techniques to assess tumor heterogeneity in malignant gliomas.
ISMRM 15 : 837 (2007)

Wiedemair W, Kroll A, Kindl P, Schad LR
Improvement of perfusion imaging of the human lung using retrospective gating.
ISMRM 15 : 1505 (2007)

Wiedemair W, Weber MA, Kroll A, Kindl P, Schad LR
Measurement of skeletal muscle perfusion at rest and its change after exercise using Arterial Spin-Labelling.
ISMRM 15 : 2666 (2007)