

Program

Wednesday, March 12, 2014

| Session | Poster | Zeit | Name | Title |
|--------------------------------|--------|-------|--|--|
| Registrierung | | 09:00 | | |
| Begrüßung | | 10:00 | Prof. Buzug, Prof. Bartels, Dr. Habeck | |
| Biomedical Optics I | 1 | 10:40 | A. Auner | Improving the stability of an interferometrically based photoacoustic detection |
| | 2 | 10:45 | M. Münter | Implementation of a reconstruction algorithm for Photoacoustic Tomography |
| | 3 | 10:50 | J. Rehra | Light transmission measurements through porcine eyes |
| | 4 | 10:55 | W. Schwarzer | Parameter optimization for power controlled retinal photocoagulation |
| Biomedical Optics II | 5 | 11:00 | N. Tödter | Solder modification for wound dressing fixation by laser radiation |
| | 6 | 11:05 | J. Pruessner | Imaging of heat and chemical burn affected skin ex vivo with coherent anti-stokes Raman (CARS) microscopy |
| | 7 | 11:10 | K. Fuchs | Variable, computer-controlled attenuator for use in a time-gated optical scanning system |
| | 8 | 11:15 | C. Hain | Development and validation of a measuring setup to determine the transmittance of the illumination system of endoscopes |
| Pause | | 11:20 | | Pause |
| Biochemical Physics | 9 | 11:35 | K. Scheffler | Effect of substrate stiffness on photodynamic therapy sensitivity of various glioma cell lines in vitro |
| | 10 | 11:40 | L. M. Nießen | Photosensitizer delivery by liposomes |
| | 11 | 11:45 | S. Bugler | Investigation of human skin permeability to zinc oxide nanoparticles formulated as sunscreen |
| | 12 | 11:50 | R. Schmidt | Measurement of concentrations of photoreactive liquids with high scattering using a differential polarimeter |
| | 13 | 11:55 | R. Kuehn | Metadynamics with PLUMED2 |
| Pause | | 12:00 | | Pause |
| Gruppenfoto | | 12:50 | | Gruppenfoto |
| Biomedical Engineering I | 14 | 13:00 | B. Redmer | Characterisation of pyroelectric detectors for the measurement of medical and safety-relevant gases |
| | 15 | 13:05 | S. Abdul-Karim | Design and implantation of a test bed to separate different drugs in multi-infusion system using gas bubbles |
| | 16 | 13:10 | M. Ebner | Flow Optimisation through Porous Ceramic Throttle |
| | 17 | 13:15 | M. Schlitzke | Compressive behavior and isotropy of short-fiber-filled epoxy cylinders as alternative test material for cortical bone |
| | 18 | 13:20 | S. E. Heinitz | Construction of a Guide Wire Handle for the support of the operation of trochanteric hip fractures |
| | 19 | 13:25 | P. Koch | Evaluation of needle deformation during brachytherapy |
| Biomedical Engineering II | 20 | 13:30 | K. Köhler | Practice of reprocessing medical single-use devices in Schleswig-Holstein |
| | 21 | 13:35 | D. Züwers | Software testing as an important component in the development of medical devices |
| | 22 | 13:40 | A. K. Laarmann | Design Change of a Flow Sensor -Engineering Tests for System Integration- |
| | 23 | 13:45 | M. Angerer | Construction and Optimization of a Bidirectional Transducer to Treat Hearing Loss |
| | 24 | 13:50 | R. Kusche | Design, Development and Comparison of two Different Measurement Devices for Time-Resolved Determination of Phase Shifts of Bioimpedances |
| | 25 | 13:55 | A. Malhotra | A System for Multi-Modal Assessment of Cardiovascular Parameters - Design and Measurements |
| Pause | | 14:00 | | Pause |
| Signal Processing | 26 | 14:20 | N. Pfeiffer | Draft of a multichannel electromyography amplifier circuit with monopolar lead for hand prostheses control |
| | 27 | 14:25 | T. Friedrich | Overcoming electrodes shift variances in multi-channel surface EMG recordings for prosthetic controlling |
| | 28 | 14:30 | T. Karisch | Coil Geometry Optimization and Implementation of a Field Generator for the Magnetic Particle Spectroscopy |
| | 29 | 14:35 | A. Behrends | Signal Chain Optimization in Magnetic Particle Imaging |
| | 30 | 14:40 | S. Bäcker | Sparse Representation of Motion Fields using the Wavelet Transform |
| Pause | | 14:45 | | Pause |
| Imaging and Image Computing I | 31 | 15:00 | O. Kazankova | Dictionary learning for sparse image representation with K-SVD algorithm |
| | 32 | 15:05 | P. Klein | VimEye Exhibition Demo - an AVT machine vision camera application for eye-blink-detection |
| | 33 | 15:10 | C. Bollmeyer | Position Detection of a lying patient with Microsoft Kinect Sensor |
| | 34 | 15:15 | S. Ketelhut | 3D imaging of a femur with a Kinect sensor and the 3D scanning software Kinect Fusion for the determination of coordinates of points in the CT scan of the femur with the software Amira |
| | 35 | 15:20 | D. Hofmann | Evaluation of optical features for skin thickness compensated NIR triangulation |
| Imaging and Image Computing II | 36 | 15:25 | N. Leßmann | Towards Pulmonary Emboli Visualization in CTA Images Using Streamline Variance Analysis |
| | 37 | 15:30 | A. Hänler | Evaluation of Methods for Automatic Fish Segmentation |
| | 38 | 15:35 | F. Kaiser | An Algorithm for Automated Model Generation of in Vitro Cell Images |
| | 39 | 15:40 | C. Winter | Subtraction Imaging on Double Inversion Recovery Images for Cortical Lesion Detection in Patients with Multiple Sclerosis |
| Pause | | 15:45 | | Pause |

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| Magnetic Resonance Imaging I | 40 | 16:00 | A. Timmermeyer | Development and Validation of a Tool for Pulse Wave Velocity Measurements in MRI Phase Contrast Data |
| | 41 | 16:05 | D. Hoinikiss | Automatic Image Quality Assessment of Head MRI Study Data |
| | 42 | 16:10 | M. Meyer | Chasing the Zebra. The Quest for the Origin of a Stripe Artifact in Diffusion-Weighted MRI. |
| | 43 | 16:15 | H. Lüthje | Motion Correction for MRI Exploiting Sparsity |
| | 44 | 16:20 | A. Biber | Visualizing Microscopic Hemorrhages with Susceptibility-Weighted Imaging for Forensic Applications |
| Magnetic Resonance Imaging II | 45 | 16:25 | J. Cieluch | Connection between structural and functional Connectivity: A Magnetic Resonance Study |
| | 46 | 16:30 | S. Minjoli | Generation of an Accurate Tetrahedral Model of a Brain with Chronic Stroke Lesions for TMS and tDCS field calculations |
| | 47 | 16:35 | A. Niebergall | GABA quantification at 7 T - In vivo application of MEGA-PRESS in mice |
| | 48 | 16:40 | S. Ipsen | Radiosurgery beyond cancer: Real-time tracking and treatment planning for non-invasive treatment of cardiac arrhythmia |
| Get together | | 17:00 | | Get together |