

Scientific Program

Friday, March, 12, 2015

		Medical Imaging Chair: Prof. Dr. M. Koch
08:00	27	Method to measure migration of a percutaneous nerve evaluation (PNE) leads <i>T. H. Tronnier, A. J. Rivard, P. C. Falkner</i>
08:15	28	The measurement of the peak kilovoltage across microfocus X-ray tubes by using K-shell radiation and K-shell absorption <i>A. Schu, W. Niemann</i>
08:30	29	Analyzing the Impact of Different Path Termination Conditions in a Probabilistic Fiber Tracking Algorithm <i>S. Ariyamitr, M. A. Koch</i>
08:45	30	Measurement and analysis of the respiration-driven motion of the pulmonary artery <i>S. Malterer, J. Ehrhardt, A. Frydrychowicz, T. Oechtering, H. Handels</i>
09:00	31	Respiratory Surface Motion Measurement by Microsoft Kinect Implementation and Evaluation of a clinical Setup <i>J. Ortmüller, R. Werner, M. Wilms, H. Handels, T. Gauer</i>
09:15		Coffee Break
		Signal Processing I Chair: Prof. A. Mertins
09:30	32	Single-trial variability of non-invasively recorded high-frequency somatosensory evoked potentials <i>M. Scheuermann, G. Waterstraat, G. Curio</i>
09:45	33	Evaluation of a Skin-to-Electrode Impedance Measuring System <i>J. P. Diesing, T. Moszkowski, R. Ruff, A. Mertins</i>
10:00	34	Quantitative evaluation of online signal processing for fMRI-based neurofeedback <i>A. Lanfermann, M. Zvyagintsev, K. Mathiak</i>
10:15	35	Different k-Space Sampling Sequences for MR Image Reconstruction with Blind Sparse Motion Estimation <i>C. Clauß, A. Möller, A. Mertins</i>
10:30	36	Exploiting Sparsity Property of the Plenacoustic Function for Compressive Sensing <i>F. Katzberg, R. Mazur, J. O. Jungmann, A. Mertins</i>
10:45		Coffee Break
		Signal Processing II Chair: Prof. Dr. T. M. Buzug
11:00	37	Robust Pattern Recognition of Hand Movement with Mutli-Channel Surface EMG Using Random Forest <i>V. Haase, P. Koch, L. Hertel, A. Mertins</i>
11:15	38	Noise Cancellation using Room Equalization Filters <i>T. Parbs, A. Mertins</i>
11:30	39	Receive Chain Noise Matching For Magnetic Particle Imaging <i>M. Melchger, M. Graeser, T. M. Buzug</i>
11:45	40	Experimental Evaluation of Different Weighting Schemes in Magnetic Particle Imaging Reconstruction <i>P. Szwargulski, J. Rahmer, M. Ahlborg, C. Kaethner, T. M. Buzug</i>
12:00		Lunch Break

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Image Processing I Chair: Dr. T. Friedrich		
13:00	41	Comparison and Performance Evaluation of Indoor Localization Algorithms based on an Error Model for an Optical System <i>L. Zhao, M. Pelka, C. Bollmeyer, H. Hellbrück</i>
13:15	42	A machine learning approach for planning valve-sparing aortic root reconstruction <i>J. Hagenah, M. Scharfschwerdt, Z. Zhang, C. Metzner</i>
13:30	43	Edge-preserving ring artifact correction for CT imaging <i>S. K. Lüth, M. Elter, I. Schasiepen</i>
13:45	44	Fully Automated Camera Calibration for X-ray Inspection and Computed Tomography Systems <i>M. Meike, B. Kratz, F. Herold</i>
14:00	45	Analysis of an Automatically Computed Abstraction Parameter in Sketch-based Image Retrieval Using Angular-Radial Partitioning <i>M. Duchrow, A. Mertins</i>
14:15		Coffee Break
Image Processing II Chair: Prof. Dr. H. Handels		
14:30	46	Performance of Förstner- and Rohr operators based on structure tensors versus Hessians <i>F. Sannmann, T. Polzin, J. Modersitzki</i>
14:45	47	Dimensionality reduction of multidimensional image descriptors for medical image registration <i>J. Degen, J. Modersitzki, M. P. Heinrich</i>
15:00	48	An Efficient Implementation of an Affine Point-based Registration using the Expectation Maximization-ICP in C <i>D. Puls, J. Krüger, H. Handels</i>
15:15	49	Enabling on-demand features for Decision Forests <i>A. Rüscher, O. Maier, H. Handels</i>
15:30	50	Ischemic Stroke Lesion Segmentation - Setup of a challenge - <i>L. Friedmann, O. Maier, H. Handels</i>
15:45	0	Coffee Break
16:00	0	Kurzpräsentation Poster 1-5
16:15	0	Preisverleihung, Zusammenfassung, Verabschiedung