1. Peer Reviewed Publications

1.A Journals


17. Erich Birngruber, René Donner, Georg Langs, matVTK - 3D Visualization for MATLAB. in Insight Journal 2009


1.B Full Papers in Peer Reviewed Conference Proceedings


34. **Georg Langs**, Nikos Paragios. Modeling the structure of multivariate manifolds: Shape Maps. in Proc. of **CVPR'08**, 2008


36. Yuan Han, **Georg Langs**, Nikos Paragios. Group-wise MDL based registration of small animals in video sequences. in Proc. of **IEEE ISBI'08**, 2008

37. Peter Widhalm, **Georg Langs**, René Donner, Negar Fakhrai, Philipp Peloschek, Robert Sablatnig. Estimation of Fit Confidence in Active Shape Model Search for the Reliable Measurement of Knee Alignment. in Proc. of **AAPR’08**, 2008


44. Eva Dittrich, Radhouène Neji, Tilman Schmoll, Sabine Schriefl, Christian Ahlers, Rainer A. Leitgeb, **Georg Langs**. Detection of Capillary Vessels in Optical Coherence Tomography Based on a Probabilistic Kernel. in Proceedings of **MIUA 2009**.


46. René Donner, Horst Wildenauer, Horst Bischof, **Georg Langs**. Weakly Supervised Group-Wise Model Learning based on Discrete Optimization. in Proceedings of **MICCAI 2009**

47. Salma Essafi, **Georg Langs**, Nikos Paragios. Left Ventricle Segmentation Using Diffusion Wavelets and Boosting. in Proceedings of **MICCAI 2009**

48. Salma Essafi, **Georg Langs**, Nikos Paragios Hierarchical 3D Diffusion Wavelet Shape Priors. in Proceedings of **ICCV 2009**

49. Lukas Fischer, René Donner, Franz Kainberger, **Georg Langs**. Automatic Region Template Generation for Shape Particle Filtering based Image Segmentation. in Proc. of **MICCAI Workshop on Probabilistic Models for Medical Image Analysis 2009**.

50. **Georg Langs**, Gregor Kasprian, Peter C. Brugger, and Daniela Prayer. Quantitative Morphometry of Fetal Cortical Hemispheres and their Asymmetry. in Proc. of **MICCAI’09 Workshop on Image Analysis of the Developing Brain. 2009**

52. Ernst Schwartz, Roman Gottardi, Johannes Holfeld, Christian Loewe, Martin Czerny, Georg Langs. Evaluating deformation patterns of the thoracic Aorta in gated CTA sequences. in Proc. of ISBI’10, 2010
55. Georg Langs, Gregor Kasprian, Eva Dittrich, Mario Bittner, Peter Brugger, Daniela Prayer. Group-wise Spatio-Temporal Registration and Segmentation of Fetal Cortical Surface Development. in Proc. STIA - MICCAI 2010
2. Book Chapters


3. Thesis


4. Books
