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Table of Contents

Table of Contents	iii
Organisation and Sponsors	v
International Program Committee	vi
Additional Reviewers	vii
Author Index	viii
Keynote	x

Visual Exploration and Analysis of Biological Data

Unfolding and Interactive Exploration of Protein Tunnels and their Dynamics	1
<i>Ivan Kolesár, Jan Byška, Julius Parulek, Helwig Hauser, and Barbora Kozlíková</i>	
Chameleon - Dynamic Color Mapping for Multi-Scale Structural Biology Models	11
<i>Nicholas Waldin, Mathieu Le Muzic, Manuela Waldner, Eduard Gröller, David Goodsell, Autin Ludovic, and Ivan Viola</i>	
Illustrative Transitions in Molecular Visualization via Forward and Inverse Abstraction Transform	21
<i>Johannes Sorger, Peter Mindek, Tobias Klein, Graham Johnson, and Ivan Viola</i>	
Visual Analysis and Comparison of Multiple Sequence Alignments	31
<i>Martin Hess, Daniel Jente, Josef Wiemeyer, Kay Hamacher, and Michael Goesele</i>	

Novel Visualization Techniques (Short Papers)

Semi-Automatic Vessel Boundary Detection in Cardiac 4D PC-MRI Data Using FTLE fields	41
<i>Benjamin Behrendt, Benjamin Köhler, Daniel Gräfe, Matthias Grothoff, Matthias Gutberlet, and Bernhard Preim</i>	
Real-Time Guidance and Anatomical Information by Image Projection onto Patients	47
<i>Marc R. Edwards, Serban R. Pop, Nigel W. John, Panagiotis D. Ritsos, and Nick Avis</i>	
Volume Visualization Using Principal Component Analysis	53
<i>Salaheddin Alakkari and John Dingliana</i>	

Visual Computing for Blood Flow Analysis & Motion Analysis

Temporal Interpolation of 4D PC-MRI Blood-flow Measurements Using Bidirectional Physics-based Fluid Simulation	59
<i>Niels H. L. C. de Hoon, Andrei C. Jalba, Elmar Eisemann, and Anna Vilanova</i>	
A Framework for Fast Initial Exploration of PC-MRI Cardiac Flow	69
<i>Arjan J. M. Broos, Niels H. L. C. de Hoon, Patrick J. H. de Koning, Rob J. van der Geest, Anna Vilanova, and Andrei C. Jalba</i>	
Coherence Maps for Blood Flow Exploration	79
<i>Rickard Englund, Timo Ropinski, and Ingrid Hotz</i>	

Table of Contents

Spatio-temporal Visualization of Regional Myocardial Velocities	89
<i>Ali Sheharyar, Teodora Chitiboi, Eric Keller, Ozair Rahman, Susanne Schnell, Michael Markl, Othmane Bouhali, and Lars Linsen</i>	

Medical Data Analysis and Visualization (Short Papers)

Illustrative PET/CT Visualisation of SIRT-Treated Lung Metastases	99
<i>Nico Merten, Sylvia Glaßer, Bianca Lassen-Schmidt, Oliver Stephan Großer, Jens Ricke, Holger Amthauer, and Bernhard Preim</i>	

A Feasibility Study on Automated Protein Aggregate Characterization Utilizing a Hybrid Classification Model	105
<i>Dennis Eschweiler, Michael Gadermayr, Jakob Unger, Markus Nippold, Björn Falkenburger, and Dorit Merhof</i>	

PATHONE: From one Thousand Patients to one Cell	111
<i>Alberto Corvò, Michel A. Westenberg, Marc A. van Driel, and Jarke J. van Wijk</i>	

Recent Advances in MRI and Ultrasound Perfusion Imaging	117
<i>Radovan Jiřík</i>	

Illustrative and Comparative Medical Visualization

Semi-Immersive 3D Sketching of Vascular Structures for Medical Education	123
<i>Patrick Saalfeld, Aleksandar Stojnic, Bernhard Preim, and Steffen Oeltze-Jafra</i>	

Sline: Seamless Line Illustration for Interactive Biomedical Visualization	133
<i>Nils Lichtenberg, Noeska Smit, Christian Hansen, and Kai Lawonn</i>	

Aortic Dissection Maps: Comprehensive Visualization of Aortic Dissections for Risk Assessment	143
<i>Gabriel Mistelbauer, Johanna Schmidt, Anna-Margaretha Sailer, Kathrin Bäumlner, Shannon Walters, and Dominik Fleischmann</i>	

How to Evaluate Medical Visualizations on the Example of 3D Aneurysm Surfaces	153
<i>Sylvia Glaßer, Patrick Saalfeld, Philipp Berg, Nico Merten, and Bernhard Preim</i>	

Simulation and Visual Analysis in Medicine

Visualization-Guided Evaluation of Simulated Minimally Invasive Cancer Treatment	163
<i>Philip Voglreiter, Michael Hofmann, Christoph Ebner, Roberto Blanco Sequeiros, Horst Rupert Portugaller, Jurgen Fütterer, Michael Moche, Markus Steinberger, and Dieter Schmalstieg</i>	

Monte-Carlo Ray-Tracing for Realistic Interactive Ultrasound Simulation	173
<i>Oliver Mattausch and Orcun Goksel</i>	

Graxels: Information Rich Primitives for the Visualization of Time-Dependent Spatial Data	183
<i>Sergej Stoppel, Erlend Hodneland, Helwig Hauser, and Stefan Bruckner</i>	

Visual Analytics for the Exploration and Assessment of Segmentation Errors	193
<i>Renata G. Raidou, Freek J. J. Marcelis, Marcel Breeuwer, Eduard Gröller, Anna Vilanova, and Huub M. M. van de Wetering</i>	

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Author Index

Alakkari, Salaheddin	53	Jente, Daniel	31
Amthauer, Holger	99	Jiřík, Radovan	117
Avis, Nick	47	John, Nigel W.	47
Bäumler, Kathrin	143	Johnson, Graham	21
Behrendt, Benjamin	41	Keller, Eric	89
Berg, Philipp	153	Klein, Tobias	21
Bouhali, Othmane	89	Köhler, Benjamin	41
Breeuwer, Marcel	193	Kolesár, Ivan	1
Broos, Arjan J. M.	69	Koning, Patrick J. H. de	69
Bruckner, Stefan	183	Kozlíková, Barbora	1
Byška, Jan	1	Lassen-Schmidt, Bianca	99
Chitiboi, Teodora	89	Lawonn, Kai	133
Corvò, Alberto	111	Lichtenberg, Nils	133
Dingliana, John	53	Linsen, Lars	89
Driel, Marc A. van	111	Ludovic, Autin	11
Ebner, Christoph	163	Marcelis, Freek J. J.	193
Edwards, Marc R.	47	Markl, Michael	89
Eisemann, Elmar	59	Mattausch, Oliver	173
Englund, Rickard	79	Merhof, Dorit	105
Eschweiler, Dennis	105	Merten, Nico	99, 153
Falkenburger, Björn	105	Mindek, Peter	21
Fleischmann, Dominik	143	Mistelbauer, Gabriel	143
Fütterer, Jurgen	163	Moche, Michael	163
Gadermayr, Michael	105	Muzic, Mathieu Le	11
Geest, Rob J. van der	69	Nippold, Markus	105
Glaßer, Sylvia	99, 153	Oeltze-Jafra, Steffen	123
Goesele, Michael	31	Parulek, Julius	1
Goksel, Orcun	173	Pop, Serban R.	47
Goodsell, David	11	Portugaller, Horst Rupert	163
Gräfe, Daniel	41	Preim, Bernhard	41, 99, 123, 153
Gröller, Eduard	11, 193	Rahman, Ozair	89
Großer, Oliver Stephan	99	Raidou, Renata G.	193
Grothoff, Matthias	41	Ricke, Jens	99
Gutberlet, Matthias	41	Ritsos, Panagiotis D.	47
Hamacher, Kay	31	Ropinski, Timo	79
Hansen, Christian	133	Saalfeld, Patrick	123, 153
Hauser, Helwig	1, 183	Sailer, Anna-Margaretha	143
Hess, Martin	31	Schmalstieg, Dieter	163
Hodneland, Erlend	183	Schmidt, Johanna	143
Hofmann, Michael	163	Schnell, Susanne	89
Hoon, Niels H. L. C. de	59, 69	Sequeiros, Roberto Blanco	163
Hotz, Ingrid	79	Sheharyar, Ali	89
Jalba, Andrei C.	59, 69	Smit, Noeska	133

Author Index

Sorger, Johannes	21	Waldin, Nicholas	11
Steinberger, Markus	163	Waldner, Manuela	11
Stojnic, Aleksandar	123	Walters, Shannon	143
Stoppel, Sergej	183	Westenberg, Michel A.	111
Unger, Jakob	105	Wetering, Huub M. M. van de	193
Vilanova, Anna	59, 69, 193	Wiemeyer, Josef	31
Viola, Ivan	11, 21	Wijk, Jarke J. van	111
Vogltreiter, Philip	163		

Keynote

Visual Computing for Connectomics - Achievements and Challenges

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Biographical Note

Hans-Christian Hege is head of the Visual Data Analysis Department at Zuse Institute Berlin (ZIB). After studying physics and mathematics, he performed research in computational physics and quantum field theory at Freie Universität Berlin (1984-1989). Then, he joined ZIB, initially as a scientific consultant for high-performance computing, and then as head of the Scientific Visualization Department, which he started in 1991. His group performs research in visual data analysis and develops visualization software such as Amira and Biosphere3D. He is also the co-founder of Mental Images (1986) – now NVIDIA Advanced Rendering Center –, Indeed-Visual Concepts (1999) – now Visage Imaging –, and Lenné3D (2005).

He taught as a guest professor at Universitat Pompeu Fabra, Barcelona, and as honorary professor at the German Film School (University for Digital Media Production) / Film School Babelsberg. His research interests include visual computing and applications in life sciences, natural sciences and engineering. He is a member of ACM, IEEE, Eurographics, GI, DPG and CURAC.