Annual Meeting / GI Fachgruppe
"Visual Computing in Biology and Medicine"

Rostock, September 7-8, 2023

Thursday, September 7

13:30 - 15:10 / Surgical Planning and Monitoring

Opening

Fast Generation of Image-based Models for Surgery Planning
Anja Hennemuth, Charité - Universitätsmedizin Berlin

Augmented Reality for Interactive Surgery and Intervention Planning
Lisa Bautz, Fraunhofer MEVIS

Intra-Individual Comparative Visualization of Longitudinal 24-hour Ambulatory Blood Pressure Measurements in Children
Mahmut Özmen, Peter L. Reichertz Institute for Medical Informatics of TU Braunschweig and Hannover Medical School

Use of Artificial Intelligence in Underwater Monitoring
Helmut Tödtmann, Fraunhofer IGD

15:10 - 15:30 / Coffee Break

15:30 - 17:10 / Artificial Intelligence and Narrative Visualization

Artificial intelligence in the Pediatric Echocardiography: Focus on Hypo Plastic Left Heart Syndrome
Mohamed Yaseen Jabarulla, Peter L. Reichertz Institute for Medical Informatics of TU Braunschweig and Hannover Medical School

Opening the Black-Box: Interactive Visualization of Convolutional Neural Network Relevance Maps to Explain Model Decisions
Martin Dyrba, Deutsches Zentrum für Neurodegenerative Erkrankungen (DZNE)

Narrating Medicine: Using Visual Storytelling to Communicate Health Information to the Public
Sarah Mittenentzwei, Otto-von-Guericke University Magdeburg

Interactive Generation of Narrative Visualizations for Risk Communication
Anna Kleinau, Otto-von-Guericke University Magdeburg

19:00 / Workshop Gathering
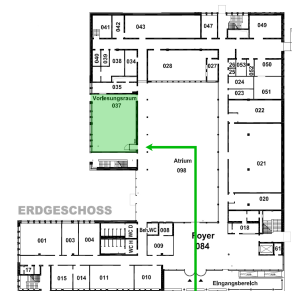*Braugasthaus Zum alten Fritz*, Warnowufer 65, 18057 Rostock
https://goo.gl/maps/qDa2vG6F8CPFi9vRA
https://www.alter-fritz.de/

**Hörsaal 37
(Ground Floor)**

Albert-Einstein-Str. 22
(Konrad-Zuse-Haus)
18059 Rostock

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Friday, September 8

09:00 - 10:15 / Imaging and Visual Analysis

Real-time Large-area Imaging of the Cornea
Karsten Sperlich, Rostock University Medical Center and Department Life, Light & Matter, University of Rostock

Visual Analytics of Retinal Layers in Optical Coherence Tomography Data
Martin Röhlig, University of Rostock

Rapid Prototyping of Coordinated Views for Computational Neuroscience
Philipp Harth, Zuse Institute Berlin

10:15 - 10:30 / Coffee Break

10:30 - 11:30 / MedViz Award (Karl-Heinz Höhne Preis) – sponsored by BrainLab

Virtual Reality - Enhancing Surgical Training
Mareen Allgaier, Otto-von-Guericke University Magdeburg

Visualizing Carotid Stenoses for Stroke Prevention
Pepe Eulzer, Friedrich Schiller University Jena

Closing

12:45 / Post-Workshop Social Event
Harbor cruise to Warnemünde
Departure from Rostock: 12:45 (travel time: 1 hour)
Am Strande, 18055 Rostock
https://goo.gl/maps/wFijRhEz475srvk6A
https://www.rostocker-flotte.de/strandlinie-rostock-warnemuende.html
Return by public transport (travel time to Rostock main train station: 30 minutes)