



Sept. 30

🏠 Universitätshauptgebäude  
 Universitätsplatz 1  
 18055 Rostock  
 Room: Aula, 2nd Floor

🚊 Tram Line 1, 4, 5 or 6 to *Lange Straße*



Oct. 1 - 2

🏠 Konrad-Zuse-Building  
 Albert-Einstein-Straße 22  
 18059 Rostock  
 Room: HS 073

🚊 Tram Lines 4 or 6 to *Campus Südstadt*  
 🚌 Bus Line 36 to *Am Pulverturm*

600 Jahre  
**Universität Rostock**  Traditio et Innovatio  
 Institute for Visual and Analytics Computing

 **Fraunhofer**  
 IGD

 **GESELLSCHAFT FÜR INFORMATIK**

**Contact**

Universität Rostock  
 Albert-Einstein-Str. 22  
 18059 Rostock  
 +49 (381) 498 7481  
 vmv2019@uni-rostock.de

[vmv2019.uni-rostock.de](http://vmv2019.uni-rostock.de)



24<sup>th</sup> International Symposium on  
 Vision, Modeling and Visualization  
 University of Rostock, Germany



**Invited speakers**

- **Holger Theisel**  
Magdeburg University  
*Optimal Reference Frames, Scaling and Features in Visualization*
- **Thomas Ertl**  
University of Stuttgart  
*Visualization and Analysis of Large Scientific Data – New Approaches for Volumes, Flows, and Particles*

**University Main Building | Aula**

- 13:00 Registration
- 14:00 Opening  
„50 Years Computer Graphics in Rostock“  
(in German)
- 15:10 Coffee
- 15:30 Honorary Doctorate Conferement -  
Prof. Dr. Dieter Fellner
- 17:00 Opening VMV 2019 Oliver Staat
- 17:10 Invited Talk I: Holger Theisel Chair: Oliver Staat
- 19:00 Social Event: Warnow River Dinner Cruise



**19:00 Social Event: Warnow Dinner Cruise**

Dinner Tour on the Warnow River and the Baltic Sea on a ship of „Blaue Flotte Rostock“.

🏠 Stadthafen,  
Fahrgastschiffahrt Schnickmannstraße  
Am Strande, 18055 Rostock  
Google Plus Code: 34VM+3H Rostock

**Konrad-Zuse Building | HS 037**

- 9:00 Opening of the Technical Program Hans-Jörg Schulz, Matthias Teschner, Michael Wimmer
- 9:15 **Session 1: Modeling** Chair: Michael Guthe  
RodMesh: Two-handed 3D Surface Modeling in Virtual Reality; *F. Verhoeven, O. Sorkine-Hornung*  
Reflection Symmetry in Textured Sewing Patterns; *K. Wolff, P. Herholz, O. Sorkine-Hornung*
- 10:00 **Session 2: Imaging** Chair: Marcus Magnor  
Normal Map Bias Reduction for Many-Lights Multi-View Photometric Stereo; *J. Gan, P. Bergen, T. Thormählen, P. Drescher, R. Hagens*  
Trigonometric moments for editable structured light range finding; *S. Werner, J. Iseringhausen, C. Callenberg, M. Hullin*  
Reconfigurable Snapshot HDR Imaging Using Coded Masks and Inception Network; *M. Alghamdi, Q. Fu, A. Thabet, W. Heidrich*
- 11:00 Coffee
- 11:30 **Session 3: Machine Learning in Vision & Analytics** Chair: Christian Tominski  
Stochastic Convolutional Sparse Coding; *J. Xiong, P. Richtarik, W. Heidrich*  
Learning a Perceptual Quality Metric for Scatterplots; *L. Wöhler, Y. Zou, M. Mühlhausen, G. Albuquerque, M. Magnor*  
Open-Box Training of Kernel Support Vector Machines: Opportunities and Limitations; *M. Khatami, T. Schultz*
- 12:30 Lunch
- 13:45 **Session 4: Ensemble Analysis & Visualization** Chair: Filip Sadlo  
Cluster-based Analysis of Multi-Parameter Distributions in Cloud Simulation Ensembles; *A. Kumpf, J. Stumpfegger, R. Westermann*  
Clustering Ensembles of 3D Jet-Stream Core Lines; *M. Kern, R. Westermann*  
Visual Analytics of Simulation Ensembles for Network Dynamics; *Q. Ngo, M. Hütt, L. Linsen*
- 14:45 Coffee
- 15:15 **Session 5: GPU** Chair: Martin Fuchs  
Multi-Level-Memory structures for adaptive SPH simulations; *R. Winchenbach, A. Kolb*  
Joint Schedule and Layout Autotuning for Sparse Matrices with Compound Entries on GPUs; *J. S. Mueller-Roemer, A. Stork, D. Fellner*
- 16:00 GI FB GDV Assembly
- 19:00 Conference Dinner

**Konrad-Zuse Building | HS 037**

- 9:00 **Session 6: Image & Video Processing**  
Chair: Daniel Weiskopf  
Polarization Demosaicking for Monochrome and Color Polarization Focal Plane Arrays; *S. Qiu, Q. Fu, C. Wang, W. Heidrich*  
Consistent Filtering of Videos and Dense Light-Fields Without Optic Flow; *S. Shekhar, A. Semmo, M. Trapp, O. T. Tusun, S. Pasewaldt, K. Myszkowski, J. Döllner*  
Local Remote Photoplethysmography Signal Analysis for Application in Presentation Attack Detection; *B. Kossack, E. Wisotzky, A. Hilsman, P. Eisert*
- 10:00 **Session 7: Visualization & Visual Analytics**  
Chair: Thomas Schultz  
Visual Analysis of Probabilistic Infection Contagion in Hospitals; *M. Wunderlich, I. Block, T. von Landsberger, M. Petzold, M. Marscholke, S. Scheithauer*  
A Visual Analytics Tool for Cohorts in Motion Data; *A. Sheharyar, A. Ruh, D. Valkov, M. Markl, O. Bouhali, L. Linsen*  
Visualizing Transport and Mixing in Particle-based Fluid Flows; *T. Rapp, C. Dachsbacher*
- 11:00 Coffee
- 11:30 **Invited Talk II: Thomas Ertl**  
Chair: Christian Tominski
- 12:30 Closing & Awards
- 13:00 Snacks



**19:00 Social Event: Conference Dinner**

Located in the historic train depot Lokschuppen in Rostock's city port.

🏠 Lokschuppen  
Am Strande 2C, 18055 Rostock  
Google Plus Code: 34VR+22 Rostock