2nd Leibniz MMS Days
Program

Wednesday, 22.02.2017

12:30	**Registration**	
13:00	**Opening**	
	Welcome - Interim Director of TIB I. Sens Welcome - Leibniz President M. Kleiner Welcome – Head of Development TIB P. Löwe Introduction by Network spokesman/WIAS Director - M. Hintermüller	
13:45	**A. Gassmann** (IAP)	*On perspectives for common research in the Leibniz* *MMS network in the field of Computational and Geophysical Fluid Dynamics*
14:15	***Keynote Talk:***	
	K.-R. Müller (TU Berlin)	*Machine learning and applications*
15:00	Coffee Break	
15:30	**R. König** (HKI)	*Combining linear Support Vector Machines by constraining them to use the same set of features improves consistency in biomarker discovery for blood infections*
16:00	**T. Koprucki** (WIAS)	*Mathematical knowledge management as a route to sustainability in mathematical modeling and simulation*
16:30	**K. Hulek** (Uni. Han./FIZ-KA)	zbMATH beyond publications
17:00	Coffee Break	
17:15	**Panel Discussion: Open Access** organized by TIB	
18:00	Pitch Introduction to Posters	
18:15	**Poster Session with get-together**	

Thursday, 23.02.2017

09:00-10:30	**Parallel Workshop A: CFD/GFD**	
	U. Schaefer-Rolffs (IAP)	*Consistent 3D turbulence parametrization in circulation models*
	M. Faust (TROPOS)	*An online coupled Lagrangian particle dispersion model for COSMO (M. Faust, R. Wolke)*
	T. Bauer (TROPOS)	*Investigation of phenomena in the Western Baltic Sea: Coupling of ICON and GETM with ESMF*

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	A. **Caiazzo** (WIAS)	*Estimation of cardiovascular system parameter from real data*
	R. Luther (MfN)	*Numerical simulation of impact cratering events: What is the fate of the ejected material?*
09:00-10:30	**Parallel Workshop B: Statistical Data Analysis**	
	P. Westermark (FBN)	*Research on Circadian Rhythms: Contributions from Mathematical Modeling and Data Analysis*
	D. Wittenburg (FBN)	*Covariance between genotypic effects and its use for genomic inference in half-sib families*
	U. Sauerland (ZAS)	*Syncretism Distribution Modeling: Combinatorial and Stochastic Modeling of Linguistic Morphological Tables*
10:30	Coffee Break	
11:00	***Keynote Talk:***	
	S. Turek (TU Dortmund)	*Extreme Fluids – Some Examples, Challenges and Simulation Techniques for Flow Problems with Complex Rheology*
11:45	**W. Dreyer** (WIAS)	*Thermodynamically consistent modeling of fluids*
12:15	**W. Sperber** (FIZ/KA)	*Lost in the Web? New approaches for information on mathematical software*
12:45	Lunch	
14:00-14:45	**Parallel Workshop A: CFD/GFD**	
	O. Knoth (TROPOS)	*Consistent 3D turbulence parametrization in circulation models*
	K. Klingbeil (IOW)	*Strategies for vertically adaptive meshes to reduce spurious mixing*
	A. Linke (WIAS)	*On new developments in the discretization theory for PDEs, possibly relevant for GFD & CFD*
14:45-15:30	***Workshop A: CFD/GFD - Discussion***	
14:00-15:30	**Parallel Workshop B: Statistical Data Analysis**	
	U. Gräwe (IOW)	Where to put it? How to relocate a "permanent" observation station?
	M. Schorcht (IÖR)	Spatial Segmentation Algorithm for Stratified Random Sample considering geometric circumstances
	M. Oswald (HKI)	Modeling decision tree training problems as a Mixed Integer Program (MIP) yields optimal decision trees

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15:30	Coffee Break	
16:00	***Keynote Talk:***	
	P. Maaß (Uni. Bremen)	*An introduction to inverse problems with applications in machine learning*
16:45	**Panel Discussion: Scientific Software Development: Legal Aspects and Challenges**	
17:45	**Discussion on funding opportunities for the MMS Network**	
From 19:00	Conference Dinner	

Friday, 24.02.2017

09:00	**H. Holzmann** (Uni. Hann.)	*Long-Term Accessibility of Software through Web Archives*
09:30	**B. Drees** (TIB)	*Make the most of your audio-visual simulation data: The TIB AV-Portal enables citation of simulation results and increases their visibility*
10:00	**T. Kreer** (IPF)	*Polymer-brush lubrication*
10:30	Coffee Break	
11:00	**Report on the Workshops**	
11:30	**Final Discussion - MMS at Leibniz: Present & Future**	
13:00	**Guided visit of the TIB**	