

Forum "Math-for-Industry" 2014

Applications + Practical Conceptualization + Mathematics = fruitful Innovation-

October 27 to 31, 2014, Nishijin Plaza, Fukuoka, Japan

October 27, 2014		October 28, 2014		October 29, 2014		October 30, 2014		October 31, 2014		
Registration		Registration		Registration		Registration		Registration		
9:50	Opening Ceremony									
10:00 - 10:50	<p style="text-align: center;">Thorsten Koch TU Berlin / Zuse-Institute Berlin (ZIB)</p> <p style="text-align: center;">Mixed-Integer Nonlinear Programs for Gas Network Optimization</p>	9:45 - 10:35	<p style="text-align: center;">Kerry Landman University of Melbourne</p> <p style="text-align: center;">An Interaction with Biologists: Insights into Development and Disease</p>	9:45 - 10:35	<p style="text-align: center;">Gary Froyland University of New South Wales</p> <p style="text-align: center;">Dynamical Systems Approaches to Analysing Transport in Geophysical Fluid Flow</p>	9:45 - 10:35	<p style="text-align: center;">Hans-Christian Hege Zuse-Institute Berlin (ZIB)</p> <p style="text-align: center;">Visual Analysis of Molecular Dynamics Data Using Geometric and Topological Methods</p>	9:45 - 10:35	<p style="text-align: center;">Masahito Hasegawa RIMS, Kyoto University</p> <p style="text-align: center;">Programming Languages, Tensor Categories, and Quantum Topology</p>	
10:55 - 11:30	<p style="text-align: center;">Kenichi Arai NTT Communication Science Laboratories</p> <p style="text-align: center;">Synchronization of Semiconductor Lasers for Secret Key Distribution</p>	10:40 - 11:15	<p style="text-align: center;">Arnab Ganguly University of Louisville</p> <p style="text-align: center;">Modeling Biochemical Reaction Systems with Markov Chains</p>	10:40 - 11:15	<p style="text-align: center;">Akira Takada Asahi Glass Co., Ltd.</p> <p style="text-align: center;">Mathematical Modeling of Inorganic Glass Materials</p>	10:40 - 11:15	<p style="text-align: center;">Shinsaku Kiyomoto KDDI R&D Laboratories Inc.</p> <p style="text-align: center;">Towards Privacy-Preserving Services, -Risk Analysis and Solution-</p>	10:40 - 11:15	<p style="text-align: center;">Takashi Sasaki Yokogawa Electric Corporation</p> <p style="text-align: center;">Modeling and Control in Paper-Making Machines</p>	
11:35 - 12:10	<p style="text-align: center;">Zainal Abdul Aziz Universiti Teknologi Malaysia</p> <p style="text-align: center;">UTM-CIAM: Transformation and Beyond Malaysian Mathematics for Industry</p>	11:20 - 12:05	<p style="text-align: center;">Daniel Braak University of Augsburg</p> <p style="text-align: center;">Analytical Solutions of Basic Models in Quantum Optics</p>	11:20 - 12:05	<p style="text-align: center;">Akira Ohata Toyota Motor Corporation</p> <p style="text-align: center;">Boundary Model Identification for Automotive Engine Controls</p>	11:20 - 12:05	<p style="text-align: center;">Robert Norman RMIT University</p> <p style="text-align: center;">Platform Technologies for Space Atmosphere and Climate: An Australian Space Research Program Project</p>	11:20 - 12:05	<p style="text-align: center;">Farid Melgani University of Trento</p> <p style="text-align: center;">Recent Methods for Reconstructing Missing Data in Multispectral Satellite Imagery</p>	
LUNCH		LUNCH		LUNCH		LUNCH		LUNCH		
13:40 - 14:30	<p style="text-align: center;">Vladimir Lorman CNRS & Université Montpellier 2</p> <p style="text-align: center;">Group Theory Methods in Virology: Landau Density Wave Approach</p>	13:35 - 14:20	<p style="text-align: center;">Enrique Solano University of the Basque Country, Bilbao</p> <p style="text-align: center;">Quantum Simulations and Quantum Technologies</p>	13:35 - 14:25	<p style="text-align: center;">Reinout Quispel La Trobe University</p> <p style="text-align: center;">Geometric Numerical Integration of Differential Equations and its Applications</p>	13:35 - 14:10	<p style="text-align: center;">Luke Fullard Massey University</p> <p style="text-align: center;">Modelling the Discharge of Particulates from a Hopper-Silo System- How a 6 week Industrial Contract Turned into a Research Career</p>	13:35 - 14:10	<p style="text-align: center;">Roger C. E. Tan National University of Singapore</p> <p style="text-align: center;">Sensitivity Analysis and its Numerical Methods for Quadratic Eigenvalue Problems</p>	
14:35 - 15:20	<p style="text-align: center;">Ernesto G. Birgin University of São Paulo</p> <p style="text-align: center;">Applications of Nonlinear Programming to Packing Problems</p>	14:25 - 15:35	<p style="text-align: center;">Young Researcher Session</p> <p style="text-align: center;">Alexandra Hogan A Model for Respiratory Syncytial Virus (RSV) Transmission</p> <p style="text-align: center;">Keita Iida Research to Construct a Mathematical Theory that can Compute Stochastic Cellular Processes</p> <p style="text-align: center;">Yasuaki Kobayashi Mathematical Modeling for Epidermal Structure</p>	14:30 - 15:05	<p style="text-align: center;">Íñigo L. Egusquiza University of the Basque Country, Bilbao</p> <p style="text-align: center;">Beyond Adiabatic: Effective Hamiltonians and Singular Perturbation</p>	14:15 - 15:25	<p style="text-align: center;">Young Researcher Session</p> <p style="text-align: center;">Lucas Lamata Quantum Simulations with Trapped Ions and Superconducting Circuits</p> <p style="text-align: center;">Mikel Sanz Quantum Biomimetics and Bio-Inspired Quantum Devices</p> <p style="text-align: center;">Eriko Shinkawa Uniqueness and Stability for Double Crystals in the Plane</p>	14:15 - 14:50	<p style="text-align: center;">Toshinao Yoshida Bank of Japan</p> <p style="text-align: center;">Risk Aggregation with Copula for Banking Industry</p>	
COFFEE BREAK		COFFEE BREAK		COFFEE BREAK		COFFEE BREAK		COFFEE BREAK		
15:40 - 16:15	<p style="text-align: center;">Sachiko Ishida Meiji University</p> <p style="text-align: center;">Origami Evolution from Mathematics to Engineering</p>	<div style="background-color: #fce4ec; padding: 10px;"> <p style="font-size: 2em; font-weight: bold; margin: 0;">Poster Session</p> <p style="font-size: 1.5em; font-weight: bold; margin: 0;">PHOTO </p> </div>		15:30 - 16:00	<p style="text-align: center;">APCMfi Launch Ceremony -"The Importance and Future of APCMfi"-</p>	<div style="background-color: #fce4ec; padding: 10px;"> <p style="font-size: 2em; font-weight: bold; margin: 0;">Poster Session Award Ceremony</p> <p style="font-size: 1.5em; font-weight: bold; margin: 0;">PHOTO </p> </div>		15:10 - 15:55	<p style="text-align: center;">Konrad Polthier Freie Universität Berlin</p> <p style="text-align: center;">Reliable Computing in Geometry Processing and CAGD</p>	
16:20 - 16:55	<p style="text-align: center;">Troy Farrell Queensland University of Technology</p> <p style="text-align: center;">Mathematics for Industry: A Mining and Resources Case Study</p>			16:05 - 17:00	<p style="text-align: center;">Poster Session Voting</p> <p style="text-align: center;"></p>			15:45 - 16:00	16:00	Closing
Welcome Party (Snack & Beverages)				18:00	<p style="text-align: center;">Banquet</p> <p style="text-align: center;"> Hilton Fukuoka Sea Hawk</p>			<div style="background-color: #0070c0; color: white; padding: 5px;"> <p style="font-size: 1.5em; font-weight: bold; margin: 0;">Excursion</p> </div>		