

**Forum "Math-for-Industry" 2012**  
**Information Recovery and Discovery**  
 at Fukuoka International Congress Center

	October 22, 2012		October 23, 2012		October 24, 2012		October 25, 2012		October 26, 2012
	Registration		Registration		Registration		Registration		Registration
Opening Ceremony 9:40	<b>Setsuo Arikawa</b> President, Kyushu University								
Key Note Lecture 9:50-10:40	<b>Konrad Polthier</b> Applications of Integrable Discrete Geometric Structures Freie Universität Berlin, Germany	Key Note Lecture 9:50-10:40	<b>Robert McKibbin</b> Industrial Mathematics Adventures in the South-West Pacific Massey University, New Zealand	Key Note Lecture 9:50-10:40	<b>Jonathan Hosking</b> Short-Term Forecasting of the Daily Load Curve for Residential Electricity Usage in the Smart Grid IBM T. J. Watson Research Center, U.S.A	Key Note Lecture 9:50-10:40	<b>Moti Yung</b> Cryptography: From Mathematics to Industrial Solutions Google Inc., U.S.A.	Key Note Lecture 9:50-10:40	<b>Kathy Horadam</b> Information Networks, Biometrics and Points Between RMIT University, Australia
10:50-11:30	<b>Wayne Rossman</b> Comparison of Smooth, Discrete and Semi-discrete Surfaces Kobe University, Japan	10:50-11:30	<b>Sei Kato</b> Big Data, Big Simulation, and Deep Learning IBM Global Business Services, Japan	10:50-11:30	<b>Jun'ichi Takeuchi</b> Sparse Learning with Two Applications ISEE, Kyushu University	10:50-11:30	<b>Atsushi Kawamoto</b> Topology Optimization in Multiphysics Problems TOYOTA CENTRAL R&D LABS., INC., Japan	10:50-11:30	<b>Junichi Nakagawa</b> Mathematical Core Technology for a Traffic Flow System Using the Model Predictive Control of Large and Complex Networks Nippon Steel & Sumitomo Metal Corporation
11:40-12:10	<b>Hayato Chiba</b> A spectral theory of linear operators on Gelfand triplets and its applications to infinite dimensional dynamical systems IMI, Kyushu University	11:40-12:10	<b>Koichiro Takayama</b> A survey of formal verification techniques for hardware design and expectations for mathematics FUJITSU LABORATORIES LTD., Japan	11:40-12:10	<b>Osamu Maruyama</b> Protein Complex Prediction IMI, Kyushu University	11:40-12:10	<b>Naoyuki Kamiyama</b> Pareto Stability in a Two-sided Matching Market with Indifferences IMI, Kyushu University	11:40-12:10	<b>Daisuke Tagami</b> Efforts to Establish a Disaster Assessment with the High Performance Computings IMI, Kyushu University
	LUNCH		LUNCH		LUNCH		LUNCH		LUNCH
Key Note Lecture 13:30-14:20	<b>Paul Urbach</b> Mathematical Optimization for Applied Optical Problems Delft University of Technology, The Netherlands	Key Note Lecture 13:30-14:20	<b>Zuowei Shen</b> MRA based Wavelet Frame and Applications National University of Singapore	Key Note Lecture 13:30-14:20	<b>Junji Nakano</b> Some Topics in Computational Statistics and Statistical Training The Institute of Statistical Mathematics, Japan	Key Note Lecture 13:30-14:20	<b>Alejandro Jofré</b> Optimization and Game Theory in Energy Markets Universidad de Chile	Key Note Lecture 13:30-14:20	<b>Jos Stam</b> Fluid Dynamics for Entertainment Autodesk Research, Canada
14:30-15:00	<b>Tamon Suwa</b> A Tsunami Simulator: Combination of the Particle-based Method and the Nonlinear Wave Model FUJITSU LIMITED, Japan	14:30-15:10	<b>Noel Barton</b> Mathematical Simulation Answers Investor Questions on New Concepts for Solar Power Sunoba Pty Ltd., Australia	14:30-15:10	<b>Andreas Binder</b> Model Uncertainty in Computational Finance MathConsult GmbH, Austria	14:30-15:00	<b>Koichiro Akiyama</b> A Survey of Algebraic Surface Cryptosystems Toshiba Corporation, Japan	14:30-15:10	<b>Masahiro Yamamoto</b> Industrial Mathematics by Inverse Problems: Expectations for Innovation by Mathematics The University of Tokyo, Japan
	COFFEE BREAK		COFFEE BREAK		COFFEE BREAK		COFFEE BREAK	15:10	Closing
15:30-16:00	<b>Yoshiyuki Ninomiya</b> Model Selection for Irregular Statistical Models IMI, Kyushu University	15:40-17:40	<b>Poster Session</b> Moderator: <b>Bob Anderssen</b> CSIRO, Australia	15:40-18:00	<b>Poster Session + Voting</b>	15:30-16:10	<b>Taizo Shirai</b> Mathematical Approaches Used in Recent Cryptographic Technologies Sony Corporation, Japan		
16:10-16:40	<b>Xavier Dahan</b> Application of height theory to some modular algorithms in Symbolic Computation Faculty of Math., Kyushu University					16:20-16:50	<b>Frank Lutz</b> Discrete Topology of Grains and Periodic Foams Technische Universität Berlin, Germany		
16:50-17:20	<b>Yoshihiro Mizoguchi</b> Mathematical Aspects of Interpolation Technique for Computer Graphics IMI, Kyushu University					17:00-17:30	<b>Hayato Waki</b> Ill-conditionedness in Semidefinite Programming IMI, Kyushu University		
17:30	<b>Welcome Party (Snack, Beers)</b>					17:40	<b>Poster Session Award Ceremony</b>		
				19:30	<b>Banquet</b> Hilton Fukuoka Sea Hawk 34F Pent House				