

Forum "Math-for-Industry" 2013

-The Impact of Applications on Mathematics-

November 4 to 8, 2013, Fukuoka

	November 04, 2013		November 05, 2013		November 06, 2013		November 07, 2013		November 08, 2013
	Registration		Registration		Registration		Registration		Registration
9:50	Opening Ceremony								
10:00 - 10:50	Andrea Parmeggiani Université Montpellier II, France Exclusion Processes on Networks as Models for Cytoskeletal Transport and Intracellular Traffic	9:45 - 10:35	Kaoru Sato JFE Steel Corporation, Japan The Continuing Challenge of Steel –How to Win Mathematicians and Influence Scientists in Other Disciplines–	9:45 - 10:35	Masakazu Kojima Chuo University/JST CREST, Japan Global Optimization via Conic Linear Programming Relaxation	9:45 - 10:35	Georges-Henri Cottet Université de Grenoble and CNRS, France Mathematics, Hybrid Computing and HPC	9:45 - 10:35	John Lewis Victoria University, New Zealand Principal Component Analysis and Laplacian Splines: steps toward a unified model
10:55 - 11:25	Graeme Wake Massey University, New Zealand Tumour Cell Biology and Some New Non-local Calculus	10:40 - 11:20	José A. Cuminato Universidade de São Paulo, Brazil Implicit Methods for Simulating Low Reynolds Number Free Surface Flows: Improvements on MAC-type Method	10:40 - 11:20	Hirokazu Anai FUJITSU LABORATORIES LTD., Japan Applied Algebraic Geometry in Model Based Design for Manufacturing	10:40 - 11:20	Dietmar Hömberg WIAS/TU, Germany Modelling, Analysis and Simulation of Multifrequency Induction Hardening	10:40 - 11:20	Winston Sweatman Massey University, New Zealand Some Australian and New Zealand Mathematics-in-Industry Study Group (MISG) projects with a focus on the Steel Industry
11:30 - 12:20	Wil Schilders Technische Universiteit Eindhoven, The Netherlands Industrial Mathematics in Europe	11:25 - 12:15	Naonori Ueda NTT Communication Science Labs., Japan Bayesian Meta-learning and its Application to High-Level Real Nursing Activity Recognition Using Accelerometers	11:25 - 12:15	Heinz Bauschke University of British Columbia, Canada New Developments in Splitting Methods for Road Design Optimization	11:25 - 12:15	Kazuyuki Aihara University of Tokyo, Japan Mathematical Approach to Personalized Medicine	11:25 - 12:15	Philip Broadbridge La Trobe University, Australia Applications of Integrable Nonlinear Diffusion Equations in Industrial Modelling
	LUNCH		LUNCH		LUNCH		LUNCH		LUNCH
13:50 - 14:30	Osamu Saeki IMI, Kyushu University Visualizing Multivariate Data Using Singularity Theory	13:45 - 14:15	Ryo Yoshida The Institute of Statistical Mathematics, Japan Bayesian Statistics for Designing Systems, Molecules and Others	13:45 - 14:15	Go Kato NTT Communication Science Labs., Japan Analytical Optimization of Local Quantum Operation and Classical Communication	13:45 - 14:15	Sohei Tasaki Tohoku University, Japan Phase-separating Elastic System of Mixed Lipid Bilayers	13:45 - 14:15	Takaaki Shiratori Microsoft Research Asia, China User Interfaces for Creating Character Animation
14:35 - 15:45	Monique Chyba University of Hawai'i at Manoa, U.S.A Bernard Bonnard Institut Mathématique de Bourgogne, France Control and Optimization Techniques in Nuclear Magnetic Resonance	14:20 - 15:00	Murray Cameron IDTC and University of Technology Sydney, Australia Changing Research Training for Mathematicians for Industry	14:20 - 15:00	Tomoyuki Shirai IMI, Kyushu University Applications of Determinantal Point Processes	14:20 - 15:00	Eric Bonnetier Université Joseph Fourier, France Echoscan: Electrical Impedance Tomography by Elastic Perturbation	14:20 - 15:00	Evgeny Verbitskiy Leiden University, The Netherlands Thermodynamic Ideas in Information Theory
	COFFEE BREAK		COFFEE BREAK		COFFEE BREAK		COFFEE BREAK		COFFEE BREAK
16:05 - 16:35	Hisayoshi Sato Keisuke Hakuta Hitachi Ltd., Yokohama Research Laboratory, Japan Cryptographic Technology for Benefiting from Big Data	15:20 - 16:05	Young Reseacher Session Yusuke Imoto Truncation Error Analysis of Approximation Operators on Particle Methods Takuya Hayashi Cryptanalysis of Pairing-based Cryptosystems over Small Characteristic Fields Shun'ichi Yokoyama Lit-sphere Extension for Artistic Rendering - After FMI2011 -	15:20 - 15:50	Shuai Lu Fudan University, China Parameter Identification in Non-isothermal Nucleation and Growth Processes	15:20 - 15:50	Shingo Saito Faculty of Arts and Science, Kyushu University Bayesian Approach to Measuring Parameter and Model Risk in Loss Ratio Estimation	15:20 - 16:10	Shinichiro Nakamura RIKEN Research Cluster for Innovation, Nakamura Laboratory, Japan Expectation to Mathematics, from an Industrial Basic Researcher
16:40 - 17:30	Dooho Choi Electronics and Telecommunications Research Institute, Korea Secure Crypto Implementation and Mathematics			15:55 - 18:00	Poster Session Voting	15:55 - 16:45	Frank de Hoog Commonwealth Scientific and Industrial Research Organisation, Australia Simple Mathematical Models for Complex Industrial Processes	16:15	Closing Chair: Masato Wakayama
17:45	Welcome Party (Snack & Beverages)	16:10 - 18:10	Poster Session			16:50 - 17:30	John Hearne RMIT University, Australia Managing the PhD Experience –More than Just Research		
				18:30	Banquet at 3F Boardroom Hilton Fukuoka Sea Hawk	17:35 - 17:55	Poster Session Award Ceremony		