Zurich University
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COST
EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY

Schweizerische Eidgenossenschaft
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1st European COST Conference on Mathematics for Industry in Switzerland

ZHAW, Winterthur, Laborgebäude (TL), September 15, 2016

11:30	Registration (Foyer TL)		
11:30-12:30	Lunch (Foyer TL)		
12:30-12:35	*Welcome (TL 201):* Dirk Wilhelm (ZHAW)		
12:45-13:20	*Keynote (TL 201):* Marco Laumanns (IBM): "Mathematics at the heart of next-generation public transport"		
13:30-15:30	*Thematic Sessions Part 1*		
	Industrial 1 (TL 424): *Multiphysics, Imaging, Particle Systems*	Maintenance 1 (TL 201): *Challenges and solutions in smart maintenance for railway systems*	Finance 1 (TL 412): *Optimization and Robo-Advisors*
13:30-14:00	B. Heitmann: "Spectroscopy meets AI"	P. Dersin: "PHM for Rail Maintenance Management: at the cross-roads between data science and physics"	J. Hakala: "Networks of Believe for Regulated Markets in Foreign Exchange"
14:00-14:30	S. Janacek: "What makes the pipeline dense?"	F. Mari: "Predictive Maintenance beyond Prediction of Failures"	O. Schmid: "Optimization Methods in Momentum Strategies"
14:30-15:00	V. Kumar: "Multiphysics simulations of flow measurement sensors"	D. Galar: "Prognosis, Diagnosis and Maintenance Decision Support Systems: A mathematical approach"	W. Putschögl: "The XVA conundrum"
15:00-15:30	A. Badarlis: "Parametric reduced order modeling applied to thermal property sensor"	B. Huisman: "Condition Based Logistics: Calculation of Process Capacity"	S. Schmid: "Robo-Advisor in Asset Management 2.0"
15:30-16:00	Coffee (Foyer TL)		

16:00-18:00	*Thematic Sessions Part 2*		
	Industrial 2 (TL 424): *Computation and Optimization*	Maintenance 2 (TL 201): *Advances and new directions for condition-based and predictive maintenance for energy systems*	Finance 2 (TL 412): *Stability and Volatility*
16:00-16:30	J. Giesen: "A review of the alternating direction method of multipliers for distributed optimization"	P. De Causmaker: "Modeling, learning and solving dynamic problems by meta- and hyper- heuristics in maintenance"	S. Sturm: "From Smile Wings to Market Risk Measures"
16:30-17:00	R. Mäder: "Parallel Computing with the Wolfram Language on the TACC/Wrangler Supercomputer"	B. Stephen: "Domain Knowledge and Data Analytics: Towards a Holistic Approach to Power System Condition Monitoring and Asset Management"	A. Binder: "Stability Issues in Computational Finance"
17:00-17:30	S. Ulzega: "A Hamiltonian Monte Carlo-Âŋbased method for boosting Bayesian parameter inference of stochastic differential equation models"	Y. Hu: "Deep Detection: An Unsupervised Representation to Detect Anomalies in Raw Condition Monitoring Signals"	U. Nögel: "Challenges for Big Data Analysis in The Post-Crisis Regulatory Environment"
17:30-18:00	P. Fusek: "Optimized Staff Scheduling at Swissport"		U. Wystup: "Volatility as investment - crash protection with calendar spreads of variance swaps"
18:00	Apéro (Foyer TL)		