INSURANCE DATA SCIENCE CONFERENCE PROGRAMME - June 14, 2019

Venue: Rooms HG E7 and HG F7, Main Buildung of ETH Zurich

8:30-9:00 **Registration and Welcome Coffee**

Room HG E7

9:00-9:15 Introduction by Mario Wüthrich and Keynote Address by Jeffrey Bohn		
9:15-10:00	Keynote Talk 1: Joachim M. Buhmann "Robust Algorithmics: A Foundation for Science?!"	
Room HG E7	E7 Session 1: Non-Life Insurance Pricing (Chair: Mario Wüthrich)	
10:15-10:30	Florian Pechon "Modelling Multiple Guarantees on a Household Level in Motor Insurance using	
	Multivariate Credibility"	
10:30-10:45	Yves Staudt "Optimizing Insurance Pricing Models in Collison"	
10:45-11:00	Armando Vieira "Generative Adversarial Networks (GANs) for Claim Frequency Prediction Models"	
11:00-11:30	Coffee Break	
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11:00-11:30 Room HG E7	Coffee Break Lightning Talks 1 (Chair: Andreas Tsanakas)	
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Room HG E7	Lightning Talks 1 (Chair: Andreas Tsanakas) 7 minutes each	
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12:30-13:30 Lunch Break

Room HG E7 Session 3: Loss Reserving (Chair: Franco Moriconi)

13:30-13:50	Alessandro Carrato "From Chain Ladder to Individual Claims Reserving using Machine Learning
	Techniques"
13:50-14:10	Jonas Crevecoeur "Individual Reserving with Claim Specific Covariates"
14:10-14:30	Phani Krishna Kandala "Deep Representation Learning using Stacked Autoencoder for General
	Insurance Loss Reserving"

Room HG E7 Session 5: Life and Mortality Modeling (Chair: Paul Embrechts)

14:30-14:50	Andrew Cairns "Medium Data and Socio-Economic Mortality"
14:50-15:10	Andrés Villegas "A Data Analytics Paradigm for the Construction, Selection, and Evaluation of
	Mortality Models"
15:10-15:30	Elena Kulinskaya "Administrative Health Databases for Modelling Longevity Improvments"

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15:30-16:00 Coffee Break
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Room HG E7

16:00-16:45	Keynote Talk 2: Ronald Richman "AI in Actuarial Science"
16:45-17:30	Panel discussion "Insurance Analytics: What Works, What Doesn't Work, and Future Potential"
	with Sabine Betz, Jeffrey Bohn & Volker Reinthaler; moderation: Patrick Cheridito

18:00+ Reception: Drinks & Dinner - Zunfthaus zur Meisen, Münsterhof 20, Zurich

Room HG F7	Session 2: Workflows and Satellite Da
10:15-10:30	Jürg Schelldorfer "Principles and Best
10:30-10:45	Roland A. Schmid "TensorFlow Probal Damian Rodziewicz "How to Use Sate
10:45-11:00	Damian Rodziewicz "How to Use Sate
11:00-11:30	Coffee Break

Room HG F7 Lightning Talks 2 (Chair: Markus Gesmann)

11:30_12:30	7 minutes each
	Xi Liu "Automobile Insurance Fraud D
	Maria Oskarsdottir "Fraud Detection
	Nicolas Attalides "How to Build a Dat
	Tobias Baltensperger "Solvency Cont
	Silvana Pesenti "Scenario Weights for
	Salvatore Scognamiglio "Accuracy an
	Mick Cooney "Terrorism as a Virus: E
	Kshitij Srivastava "Market Segmentat

12:30-13:30 Lunch Break

Room HG F7	Session 4: NatCat, Risk Management a
13:30-13:50	Christian Klose "Deep Learning of Rem
13:50-14:10	Lucio Fernandez-Arjona "Neural Netwo
14:10-14:30	Alexandre Boumezoued "Predicting Cy
Room HG F7	Session 6: Industry Case Studies (Chai
	Session of mudstry case studies (chan
14:30-14:50	Jakob Gerstenlauer "Using Boosted Re
14:50-15:10	Mark Lee "Feature Synthesis Using t-SN

15:10-15:30 Markus Senn "Medical Underwriting Triage: An End-To-End Machine Learning Case Study"

15:30-16:00 Coffee Break

Data (Chair: Guojun Gan)

t Practices for Applied Machine Learning Models [in Industry]"

ability - Why We Should Care" ellite Data with Machine Learning in Insurance"

Detection using Evidential Reasoning and Data-Driven Inference"

- in Insurance with Social Network Analytics"
- ata Driven Insurance Business"
- tagion Modeling"
- or Importance Measurement R Package for Sensitivity Analysis"
- nd Robustness of Machine Learning Methods in SCR Estimation"
- pidemiological Techniques for Outbreak Detection"
- ation in Life Insurance: a Case Study"

and Cyber Risk (Chair: Christophe Dutang)

note Sensing Images to Predict Wildfires"

vorks for Life Insurance Risk Management" Cyber-Attacks using the 'Hawkes' R Package"

ir: Jürg Schelldorfer)

egression Trees in Insurance" SNE and Clustering"

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