Simon Fischer, Ingo Mierswa, Gisa Schäfer (Eds.)

Proceedings of the 6th RapidMiner Wisdom (2015)

Shaker Verlag Aachen 2015

Preface

After a fantastic RapidMiner World in Boston in 2014, we are happy to be back with our user conference in Europe, and in particular in beautiful Ljubljana, Solvenia. The new name, RapidMiner Wisdom, also comes with a few changes that we hope will make the conference even more enjoyable for you.

First and most obvious, the schedule is condensed to two days, August 31st and September 1st, 2015. On the first day, everything revolves around training, enablement, and certification for our users and partners. Plus, to get you in the right mood for day two, we will have another edition of our now famous live data mining game show, "Who Wants to be a Data Miner?" where you can compete by using RapidMiner to solve problems it was never supposed to solve and win great prizes.

The second day has many great presentations from our community, covering use cases solved with RapidMiner and novel extensions. This year, we have a focus on applications from the health care domain. The series of presentations is kicked off by a keynote from Mike Ferguson, managing director of Intelligent Business Strategies. Furthermore, Lars Bauerle, RapidMiner's CPO, and myself will bring you the latest News from the Labs, showing our most recent and future innovations.

Second, admission to the conference is free. But not only is the conference free (as in beer), also RapidMiner, the software, returns to a free (as in speech) open core license model. I'm sure you have heard about these changes and our strong commitment to the community as evidenced in our latest release, RapidMiner Studio 6.5, and you will hear more about it throughout the conference. We're excited to hear your ideas and opinions!

We hope that you enjoy the programme and the presentations and utilize the time between the talks for exchanging ideas and establishing new collaborations.

August 2015

Simon Fischer Senior Vice President Engineering RapidMiner GmbH

Contents

Pa	art I – Full Papers	1
1	Recognizing Drinking ADLs in Real Time Using Smartwatches and Data Mining Klemens Waldhör, Robert Baldauf	1
2	Decision Support System for Hospital Readmission Prediction Based on Meta-Heuristic Feature Selection and Stacking	
	Sandro Radovanović, Milan Vukićević, Ana Kovačević, Boris Delibašić, Milija Suknović	19
3	Data Mining and Clinical Decision Support in Critical Care Units: Bridging the 2 Solitudes? Sven Van Poucke, Zhongheng Zhang	33
4	RM-EHR: RapidMiner Environment for Predictive Analytics on Electronic Health Records Milan Vukićević, Sandro Radovanović, Ana Kovačević, Boris Delibašić, Milija Suknović	49
5	Performance Evaluation of Indian Classical Raga Classification Using RapidMiner Akhilesh K Sharma, Avinash Panwar, Prasun Chakrabarti, Santosh K Vishwakarma	61
Pa	art II – Presentation Abstracts	7 3
6	Automated Weather Event Triggered Marketing Using Rapid-Miner Brian Tvenstrup	73
7	NamSor Onomastics Extension for RapidMiner - Gender & Cultural Segmentation for Sentiment Analysis Elian Carsenat	7 5
8	Antifraud Analytics Using RapidMiner: Practical Solutions Vladimir Mikhnovich	77

9	How AYLIEN Analyzed 80 Million Tweets Around the World	
	Cup to Discover Deep Patterns	
	Mike Waldron	7 9