Saturday, Oct 3

(registration open from 5pm to 7pm in the "Glacier Salon" of the Banff Park Lodge)

5:00pm- 7:00pm	Reception *Location: "Glacier Salon" of the Banff Park Lodge*

Sunday, Oct 4

(registration open from 8am on in "Alpine Meadows" of the Banff Park Lodge, right in front of the ALT and DS meeting rooms.)

7:00am- 8:30am	Free Breakfast Buffet *Location: "Glacier Salon" of the Banff Park Lodge*	
8:30am- 8:45am	Opening	
8:45am- 9:45am	**Keynote 1** **Finding Hidden Structure in Data with Tensor Decompositions** Sham M. Kakade University of Washington	
9:45am- 10:35am	**Text Analytics** *Session chair: Marina Sokolova*	*9:45* **Evaluating the Effectiveness of Hashtags as Predictors of the Sentiment of Tweets** *Credell Simeon and Robert Hilderman* *10:10* **Hierarchical Multidimensional Classication of web documents with MultiWebClass** *Francesco Serafino, Gianvito Pio, Michelangelo Ceci and Donato Malerba*
10:35am- 10:55am	Coffee Break	
10:55am-	**Feature selection: New**	*10:55* **No Sentiment is an Island: Author's activity and sentiments transactions in sentiment classification** *Victoria Bobicev and Marina Sokolova* *11:10* **Predictive Analysis on Tracking Emails for Targeted Marketing** *Xiao Luo, Revanth Nadanasabapathy, Nur Zincir-Heywood, Keith Gallant and Janith Peduruge* *11:35* **Tree PCA for Extracting Dominant Substructures**

12:45pm	**Approaches and Applications** *Session chair:* *Akihiro Yamamoto*	**from Labeled Rooted Trees** *Tomoya Yamazaki, Akihiro Yamamoto and Tetsuji Kuboyama* *11:50* **KeCo: Kernel-based Online Co-agreement Algorithm** *Laurens Wiel, Tom Heskes and Evgeni Levin* *12:05* **Resolution transfer in cancer classification based on amplification patterns** *Prem Raj Adhikari and Jaakko Hollmén* *12:20* **Ensembles of extremely randomized trees for multi-target regression** *Dragi Kocev and Michelangelo Ceci*
12:45pm-2:00pm		Lunch (on your own) / Business Meeting
2.00 pm-3.15 pm	Stream Mining *Session chair:* *Sašo Džeroski*	*2:00* **Clustering-Based Optimised Probabilistic Active Learning (COPAL)** *Georg Krempl, Tuan Ha and Myra Spiliopoulou* *2:25* **Semi-supervised Learning for Stream Recommender Systems** *Pawel Matuszyk and Myra Spiliopoulou* *2:50* **Benchmarking Stream Clustering for Churn Detection in Dynamic Networks** *Serdar Baran Tatar, Andrew McIntyre, Nur Zincir-Heywood and Malcolm Heywood*
3.15 pm-3.35 pm		Coffee Break
3:35pm-4:35pm		IBM Invited Talk
4:35pm-5:30pm		Reception (Sponsored by ISM Canada) *Location: "Glacier Salon" of the Banff Park Lodge*

Monday, Oct 5

(*registration open from 8:30am on in "Alpine Meadows" of the Banff Park Lodge, right in front of the ALT and DS meeting rooms.*)

7:00am-8:30am	Free Breakfast Buffet *Location: "Glacier Salon" of the Banff Park Lodge*	
8:45am-9:45am	**Keynote 2** **Overcoming Obstacles to the Adoption of Machine Learning by Domain Experts** Kiri L. Wagstaff, Jet Propulsion Laboratory, California Institute of Technology	
9:45am-10:35am	**Knowledge Mining in Unstructured Data I** *Session chair:* *Hiroshi Motoda*	_9:45_ **Dr. Inventor Framework: extracting structured information from scientific publications** *Francesco Ronzano and Horacio Saggion* _10:10_ **An evaluation of score descriptors combined with non-linear models of expressive dynamics in music** *Carlos Eduardo Cancino Chacon and Maarten Grachten*
10:35am-10:55 am	Coffee Break	
10:55am-11:25am	**Carl Smith Award winner's presentation** **Multi-label Classification via Multi-target Regression on Data Streams** **Aljaž Osojnik**, Panče Panov and Sašo Džeroski	
11:25am-11:55am	**DS Best Applied Paper Award** **Active Learning for Classifying Template Matches in Historical Maps** *Benedikt Budig and Thomas C. Van Dijk*	
11:55am-12:10pm	**Knowledge Mining in Unstructured Data II** *Session chair:* *Hiroshi Motoda*	_11:55_ **Discovery of Parameters for Animation of Midge Swarms** *Judith Bjorndahl, Ashley Herman, Richard Hamilton and Howard Hamilton*
12:10pm-12:40pm	Late Breaking Papers	

12:40pm-2:00pm	Lunch (on your own)	
2:00pm-3:00pm	**Keynote 3** **Turning Prediction Tools Into Decision Tools.** Cynthia Rudin Computer Science and Artificial Intelligence Laboratory and the Sloan School of Management, Massachusetts Institute of Technology	
3.00 pm-3.30 pm	**E.M. Gold Award winner's presentation** **Exact Learning Multivalued Dependencies** Montserrat Hermo and Ana Ozaki	
3.30 pm-3.50pm	Coffee Break	
3.50 pm-5.10 pm	**Knowledge Discovery in the Life Sciences** *Session chair:* *Michelangelo Ceci*	*3:50* **Detecting Transmembrane Proteins Using Decision Trees** *Mohammad Hossein Nikravan, Ashwani Kumar and Sandra Zilles* *4:15* **Predicting Protein Function and Protein-Ligand Interaction with the 3D Neighborhood Kernel** *Leander Schietgat, Thomas Fannes and Jan Ramon* *4:40* **Predicting Drugs Adverse Side-Effects using a recommender-system** *Diogo Pinto, Pedro Costa, Rui Camacho and Vítor Costa* *4:55* **Canonical Correlation Methods for Exploring Microbe-Environment Interactions in Deep Subsurface** *Viivi Uurtio, Malin Bomberg, Kristian Nybo, Merja Itävaara and Juho Rousu*
5:10pm-6:30pm	Break	
6:30pm-on	Banquet *Location: "Glacier Salon" of the Banff Park Lodge*	

Tuesday, Oct 6

(*registration open from 8:30am on in "Alpine Meadows" of the Banff Park Lodge, right in front of the ALT and DS meeting rooms.*)

7:00am-8:45am	Free Breakfast Buffet *Location: "Glacier Salon" of the Banff Park Lodge*	
8:45am-9:45am	**Keynote 4** **Bilinear Prediction using Low Rank Models** *Inderjit Dhillon* *UT Austin*	
9:45 am-10:40am	**Knowledge Discovery in Graphs** *Session chair: Donato Malerba*	*9:45* **Enumerating Maximal Clique Sets with Pseudo-Clique Constraint** *Hongjie Zhai, Makoto Haraguchi, Yoshiaki Okubbo and Etsuji Tomita* *10:10* **An Algorithm for Influence Maximization in a Two-Terminal Series Parallel Graph and Its Application to a Real Network** *Koji Tabata, Atsuyoshi Nakamura and Mineichi Kudo* *10:25* **Generalized Shortest Path Kernel on Graphs** *Linus Hermansson, Fredrik D. Johansson and Osamu Watanabe*
10:40am-10:55am	Coffee Break	
10:55am-12:30pm	Spatio-temporal Data *Session chair:*	*10:55* **Very Short-Term Wind Speed Forecasting using Spatio-Temporal k-Nearest Neighbors** *Annalisa Appice, Sonja Pravilivic, Antoniella Lanza and Donato Malerba* *11:10* **Periodical Skeletonization for Partially Periodic Pattern Mining** *Keisuke Otaki and Akihiro Yamamoto* *11:35* **On the Feasibility of Discovering Meta-Patterns from a Data Ensemble**

	Einoshin Suzuki	*Einoshin Suzuki* _11:50_ **Geo-Coordinated Parallel Coordinates (GCPC): A Case Study of Environmental Data Analysis** *Maha El Meseery and Orland Hoeber* _12:15_ **Change point detection for information diffusion tree** *Kouzou Ohara, Kazumi Saito, Masahiro Kimura and Hiroshi Motoda*
12:30pm	Adjourn	