

BAFI 2018 PROGRAM

Jan 17th - 19th 2018

THIRD CONFERENCE ON BUSINESS ANALYTICS IN FINANCE AND INDUSTRY

	WEDNESDAY 17TH	THURSDAY 18TH	FRIDAY 19TH	SATURDAY 20TH			
08:30 - 09:00	Registration & Welcome						
09:00 - 10:00	Keynote W1: Witold Pedrycz	Keynote T1: Peter Flach	Keynote F1: Dominik Slezak	09:00 - 18:00 EXCURSION			
10:00 - 11:00	Keynote W2: Francisco Herrera	Keynote T2: Gianluca Bontempi	Keynote F2: Usama Fayyad				
11:00 - 11:30	Coffee Break						
11:30 - 13:00	WA1.1	WB1.1	Panel		FB1.1		
	WA1.2	WB1.2			FB1.2		
	WA1.3	WB1.3			FB1.3		
	WA1.4	WB1.4			FB1.4		
13:00 - 14:00	Lunch						
14:00 - 15:30	WA2.1	WB2.1	TA2.1		TB2.1	FA2.1	FB2.1
	WA2.2	WB2.2	TA2.2		TB2.2	FA2.2	FB2.2
	WA2.3	WB2.3	TA2.3	TB2.3	FA2.3	FB2.3	
	WA2.4	WB2.4	TA2.4	TB2.4			
15:30 - 16:30	Keynote W3: Enrique Herrera-Viedma	Keynote T3: Richard Weber	Keynote F3: Pablo Zegers				
16:30 - 17:00	Coffee Break						
17:00 - 18:30	WA3.1	WB3.1	TA3.1	TB3.1	Farewell Drink		
	WA3.2	WB3.2	TA3.2	TB3.2			
	WA3.3	WB3.3	TA3.3	TB3.3			
18:30	Welcome Reception						
20:00		Dinner					

WEDNESDAY 17

9:00 - 10:00	Keynote W1	"Linkage Discovery: Bidirectional and Multidirectional Associative Memories In Data Analysis" Witold Pedrycz	Lecture room: P309
10:00 - 11:00	Keynote W2	"A tour on Imbalanced big data classification and applications" Francisco Herrera	Lecture room: P309
11:30 - 13:00	SESSION WA1		Lecture room: P309
	WA1.1	Skewness measures based on OWA operator and applications to decision making Rajkumar Verma and José M. Merigó	
	WA1.2	Divisions with the induced ordered weighted average José M. Merigó and Sigifredo Laengle	
	WA1.3	The induced heavy moving average volatility Ernesto Leon-Castro, Ezequiel Aviles-Ochoa and Jose Maria Merigo-Lindahl	
	WA1.4	Formulating the Weighted Average - Experton Salvador Linares-Mustarós, Dolores Corominas-Coll, Joan Carles Ferrer-Comalat and Jose Merigo	
14:00 - 15:30	SESSION WA2		Lecture room: P309
	WA2.1	Combining Support Vector Machine classification and profit measures in credit scoring Sebastián Maldonado, Cristian Bravo, Julia López and Juan Perez.	
	WA2.2	Thirty years of the Journal of Business & Industrial Marketing: a bibliometric analysis Leslier Valenzuela, José M. Merigó, Wesley Johnston, Carolina Nicolas and Jorge F Jaramillo	
	WA2.3	An overview of the most cited papers in computer science Gustavo Zurita, José M. Merigó, Valeria Lobos-Ossandón and Carles Mulet-Forteza	
	WA2.4	Academic research on support vector machines: A bibliometric overview Jaime Miranda, José M. Merigó and Sebastian Maldonado	
15:30 - 16:30	Keynote W3	"Bibliometric Tools for Discovering Information in Science" Enrique Herrera-Viedma	Lecture room: P309
17:00 - 18:30	SESSION WA3		Lecture room: P309
	WA3.1	Churn Prediction in Telco using Adapted node2vec on CDR graphs enriched with RFM information Sandra Mitrovic, Bart Baesens, Wilfried Lemahieu and Jochen De Weerd	
	WA3.2	Privacy preserving Customer Churn Models using Support Vector Machines Abelino Jimenez and Bhiksha Raj	
	WA3.3	Churn Prediction through Customer Feedback Analytics Carolina Martinez, Babis Theodoulidis and David Diaz	
11:30 - 13:00	SESSION WB1		Lecture room: P301
	WB1.1	Spectral Mixture Kernels for Multi-Output Gaussian Processes Gabriel Parra and Felipe Tobar	
	WB1.2	Reproducing kernel Hilbert space approach to Stochastic Frontier Analysis (SFA) Carlos Felipe Valencia, Daniel Arocha and Ader Villar	
	WB1.3	An Evaluation of Missing Data Handling Mechanisms of Evidential Reasoning Rule for Data Classification Shao Cong Lim, Dong-Ling Xu and Jian-Bo Yang	
	WB1.4	Reparameterizing the Birkhoff Polytope for Variational Permutation Inference Scott Linderman, Gonzalo Mena, John Cunningham, Liam Paninski and Hal Cooper	
14:00 - 15:30	SESSION WB2		Lecture room: P301
	WB2.1	Accounting Fraud Detection Through Forensic Analytics Maria Jofre	
	WB2.2	Theoretical and practical aspects of various measures of portfolio diversification Tomás Tichy	
	WB2.3	Animal movement in Mato Grosso do Sul and its implications for economic impacts of potential outbreaks of foot-and-mouth disease Tais Cristina de Menezes, Silvia Helena Galvão de Miranda and Ivette Luna	
	WB2.4	Patterns and Insights of an Asset Order Book Andrew Day and Matt Davison	
17:00 - 18:30	SESSION WB3		Lecture room: P301
	WB3.1	The (pseudo-)social behavior of products in offline retail stores: Predicting increase in product interpurchase time Jasmien Lismont, Sudha Ram, Bart Baesens, Wilfried Lemahieu and Jan Vanthienen	
	WB3.2	Factors affecting banking efficiency scores in Network SBM DEA model: Dealing with heterogeneity Skarleth Carrales Escobedo and Jamal Ouenniche	
	WB3.3	Analysis of UK and US SME Platform Markets using Business Model Theory: An emphasis on Web 2.0 technology sophistication Maria Manuela Gutiérrez-Leefmans	

THURSDAY 18

9:00 - 10:00	Keynote T1	"The value of evaluation: towards trustworthy machine learning" Peter Flach	Lecture room: P309
10:00 - 11:00	Keynote T2	"Machine Learning for Predicting in a Big Data World" Gianluca Bontempi	Lecture room: P309
11:30 - 13:00	SESSION TA1		Lecture room: P309
	TA1.1	Forecasting blood donations with neural networks Tine Van Calster, Michael Reusens, Bart Baesens and Wilfried Lemahieu	
	TA1.2	Predicting dwell times of import containers in a container terminal: case study of the port of Arica in Chile Francisca Quijada, Sebastian Maldonado and Rosa Guadalupe Gonzalez Ramirez	
	TA1.3	A Step Towards Demand Sensing: Employing EDI 852 Product Activity Data in Demand Forecasting Jente Van Belle and Wouter Verbeke	
	TA1.4	Data-driven inventory management: A random forest-based joint estimation and optimization model for the newsvendor problem Fabian Taigel and Jan Meller	
14:00 - 15:30	SESSION TA2		Lecture room: P309
	TA2.1	Exploring the relationship between online activity and achievement across two universities and learning management systems Sergio Celis, Joaquín Muñoz, Dany Lopez and Augusto Sandoval	
	TA2.2	Combining student learning research and learning analytics to understand student's learning process Maximiliano Montenegro and Carlos Gonzalez	
	TA2.3	Learning analytics: traps for the unwary Carolina Guzmán	
	TA2.4	Blended analytics: Capturing and visualizing physical and digital learning Sarah Howard, Jie Yang and Jun Ma	
15:30 - 16:30	Keynote T3	"Dynamic Data Mining" Richard Weber	Lecture room: P309
17:00 - 18:30	SESSION TA3		Lecture room: P309
	TA3.1	Predictive model for selection of undergraduate applicants Felipe Bugueno and Jaime Miranda	
	TA3.2	Forecasting individual course demand in higher education institutions using Machine Learning Giancarlo A. Acevedo, Jorge Amaya, Salvador Flores, Pablo Huentelemu	
	TA3.3	Educational Retention Program: Data Mining Techniques for improving performance Jonathan Vasquez, Jaime Miranda and Sebastián Maldonado	
11:30 - 13:00	SESSION TB1		Lecture room: P301
	TB1.1	Behavior based time-to-default predictions Maria Oskarsdóttir, Cristian Bravo, Bart Baesens and Jan Vanthienen	
	TB1.2	Leveraging PD Models for Bayesian Inference of Default Correlations Miguel Biron and Victor Medina	
	TB1.3	Bias-Free Text Evaluations in Micro and SME Credit Scoring using Deep Learning Cristian Bravo and Andrés Medina	
	TB1.4	Psychometric Credit Scoring Model for Microloan based on HEXACO Personality Inventory Bo Kyeong Lee, Dong Ha Kim and So Young Sohn	
14:00 - 15:30	SESSION TB2		Lecture room: P301
	TB2.1	Outlining New Product Development Research through Bibliometrics: Analyzing Journals, Articles and Researchers Nelson Andrade-Valbuena and Jose Merigo-Lindahl	
	TB2.2	Featurization Methods and Predictors for Income Inference based on Communication Patterns Martin Fixman, Martin Minnoni, Matias Travizano and Carlos Sarraute	
	TB2.3	New Item Recommendation Method Based on Latent Topic Extraction Maria Emilia Chamelli, Laura Lanzarini, Aurelio Fernández-Barviera and Javier Diaz.	
	TB2.4	A comparative assessment of machine learning techniques using payroll issuers data Hugo Pérez, Jonas Velasco and Ramiro Navarro	
17:00 - 18:30	SESSION TB3		Lecture room: P301
	TB3.1	Collecting and Analyzing Customers Experiences From Trip Advisor Social Media Sebastian Maldonado Alarcón, Carla Marina Vairetti and Guillermo Armelini Wilde	
	TB3.2	An Approach to Identify Cohesive Subgroups of Banks in Bank-Firm Networks Samrat Gupta and Pradeep Kumar	
	TB3.3	Detection of suppliers communities in e-commerce through graph analytics Fabiola Herrera, Romina Torres and Rodrigo Salas	

FRIDAY 19

9:00 - 10:00	Keynote F1	"Toward Approximate Analytics - Approximate Query Engines & Approximate Data Exploration" Dominik Slezak	Lecture room: P309
10:00 - 11:00	Keynote F2	TBA Usama Fayyad	Lecture room: P309
11:30 - 13:00	SESSION FA1		Lecture room: Aula Magna
	PANEL (in Spanish)		
	"Los desafíos para la colaboración Universidad-Empresa en el área de Data Science"		
	El panel será en castellano y pondrá un énfasis especial en la igualdad de género en el área de data science, analizando oportunidades y desafíos.		
	Panelistas: Patricio Cofré, Metric Arts, Chile Antonio Diaz-Araujo, Unholster, Chile Nuria Oliver, Vodafone, Spain Marina Tannenbaum, Easybots, Chile Carla Vairetti, Universidad de Los Andes, Chile		
14:00 - 15:30	SESSION FA2		Lecture room: P309
	FA2.1	Real-time Pedestrian Detection and Tracking in a Multicamera System Roberto Muñoz, Roberto Gonzalez, Alejandro Sazo and Patricio Cofre	
	FA2.2	Optimal Selling of a Commodity via Forward Markets in a Cash-and-Carry Trade Behzad Ghafouri and Matt Davison	
	FA2.3	Visualizing and Analyzing the 2017 Elections in Chile from a Public Perspective Sebastian Acuña and Cristóbal Huneus	
15:30 - 16:30	Keynote F3	"Artificial Intelligence, a Revolution in Latin America As Well" Pablo Zegers	Lecture room: P309
11:30 - 13:00	SESSION FB1		Lecture room: P301
	FB1.1	Identifying successful search patterns for improved job recommendation Michael Reusens, Wilfried Lemahieu, Bart Baesens and Luc Sels	
	FB1.2	Sales Leads Generation using Recommender Systems: Client Recommendations for Corporate Credit Card Merchants in the B2B Environment Ananjan Bhattacharyya and Vibhu Goenka	
	FB1.3	Beyond clickthrough rate: measuring the true impact of personalized e-mail product recommendations Stijn Geuens, Koen W. De Bock and Kristof Coussement	
	FB1.4	Exploring online travel reviews using data analytics: an exploratory study Vera Migueis	
14:00 - 15:30	SESSION FB2		Lecture room: P301
	FB2.1	Finding vehicle theft patterns using association rules and text mining Cristian Aguayo and Richard Weber	
	FB2.2	Obtaining and evaluation of abstract summaries from stored text documents Augusto Villa-Monte, Laura Lanzarini, Aurelio Fernández-Barviera and José A. Olivás	
	FB2.3	Market Basket Analysis Insights To Support Category Management Luis Aburto and Andrés Musalem	

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