

4th Stochastic Modeling Techniques and Data Analysis International Conference and Demographics Workshop

University of Malta, Valletta, Malta, June 1-4, 2016

Program

Session / Room	Date / Time	Authors / Talk Title / Event	Authors / Talk Title / Event
Main Salle	9:00-10:00	Wednesday June 1	Registration
Main Salle	10:00-10:30	Opening Ceremony	
	10:30-11:00		Coffee Break
Main Salle	11:00-11:40	Plenary Session (Chair: Christos H Skiadas) Claude Lefèvre Département de Mathématique, Université Libre de Bruxelles, Belgium	Appell type polynomials, first crossing times and risk processes
Main Salle	11:40-12:20	Plenary Session (Chair: Lino Sant) Jaromir Antoch Charles University in Prague, Department of Probability and Mathematical Statistics, Czech Republic	Estimation of Fiber System Orientation Local Approach Based on Image Analysis
Main Salle	12:20-13:00	Plenary Session (Chair: Robert Elliott) N. Balakrishnan McMaster University, Canada	Flexible Cure Rate Models and Applications
	1.06.16:13:00-14.00		Lunch
SCS1		SPECIAL AND CONTRIBUTED SESSIONS SCS1	

Room 1	1.06.16:14:00-15:00	Chair: Liberato Camilleri, Co-Chair: Neir A. Paes	Mortality Modeling
		Modeling Mortality Rates using GEE Models	Liberato Camilleri, Kathleen England
		Impact of a conditional cash transfer program on infant mortality rates in the Brazilian semiarid region	Neir A. Paes, Everlane S. A. Silva
		MORTALITY MODELLING USING PROBABILITY DISTRIBUTIONS. APPLICATION IN GREEK MORTALITY DATA	Andreopoulos Panagiotis, Bersimis G. Fragkiskos, Tragaki Alexandra, Rovolis Antonis
Room 2	1.06.16:14:00-15:00	Chair: Nina A. Kargapolova	Diffusions
		A method based on the Chapman Kolmogorov equation to approximate conditioned diffusions	David Suda
		Algorithms for Numerical Simulation of Piecewise-constant Periodically Correlated Processes Based on Different Types of Point Flows	Nina A. Kargapolova
		On the Asymptotics of the Random Sums	Nadiia Zinchenko
Room 3	1.06.16:14:00-15:15	Chair: Jim Freeman, Co-Chair: Vasile Preda	Models and Distributions
		New distribution families for modeling the impact factor	Silvia Dedu, Vasile Preda
		Escalating project costs and the Gumbel distribution	Jim Freeman, Nuno Gil
		Multivariate analog of some univariate discrete distributions	Yury Khokhlov
		Risk-neutral densities using general entropy measures in the Hunt-Devolder semi-Markov regime switching interest rate models	Muhammad Sheraz, Vasile Preda, Silvia Dedu
	1.06.16:15:00-15.30	Coffee Break	
SCS2		SPECIAL AND CONTRIBUTED SESSIONS SCS2	
Room 1	1.06.16:15:30-18:00	Chair: Robert Elliott, Co-Chair: Philippe Carette	Markov
		Hidden Markov Change Point Estimation	Robert J. Elliott, Sebastian Elliott
		About First-passage Times of Integrated Gauss-Markov Processes	Mario Abundo

Full Interaction Partition Estimation in Stochastic Processes	Fernández, M., Garcia, Jesus E., González-López, V.A., Viola, M.L.L.
Bipartite Fuzzy Stochastic Differential Equations	Marek T. Malinowski
Consistent proximity between N-grams	Garcia Jesus E., González-López V.A.
The Realized Quadratic Variation Derived from Trigonometric Transforms of Scaled Processes	Lino Sant
On stepwise increasing roots of transition matrices	Philippe Carette, Marie-Anne Guerry

2	1.06.16:15:30-18:00	Chair: Sally McClean, Co-Chair: Adele Marchall	Stochastic Models in Healthcare
		A Markov approach to discrete-time semi-Markov healthcare systems	Aleka Papadopoulou, Sally McClean and Lalit Garg
		Applications in the healthcare domain for the quality of life via semi Markov modelling	Zacharias Kyritsis and Aleka Papadopoulou
		Different pathways in the evolution of the breast cancer using a discrete homogeneous Markov model with multiple absorbing states	Ruiz-Castro Juan Eloy, Zenga Mariangela
		Modelling activity in an Australian Emergency Department using Coxian phase-type distributions to capture key patient pathways	Laura Boyle, Adele H Marshall and Mark MacKay
		Incorporating patient covariates into the conditional Coxian phase-type distribution to model elderly patient movement through hospital and community care	Adele H Marshall and Andrew S Gordon

3	1.06.16:15:30-18:00	Chair: Terry Mills, Co-Chair: Tamara Sabgayda	Human Biology
		Joint Modelling of Longitudinal Tumour Marker CEA Progression and Survival Data on Breast Cancer	Ana Borges, Inês Sousa, Luis Castro
		Applications of the Cumulative Rate to Kidney Cancer Statistics in Australia	Janelle Brennan, K.C. Chan, Rebecca Kippen, C.T. Lenard, T.M. Mills, Ruth F.G. Williams
		The Contribution of Non-Communicable Disease to the Burden of Deaths in Rural Burkina Faso	Bunker A, Marquins S, Sié A, Rocklov J, Sauerborn, R
		Fractal Analysis of Chaotic Processes in Living Organisms	Valery Antonov, Artem Zagainov, Anatoly Kovalenko
		Measurement of avoidable mortality in Russia	Tamara Sabgayda, Victoria Semionova
		THE IPUMS DATABASE IN THE ESTIMATION OF INFANT MORTALITY WORLDWIDE	Alejandro Aguirre, Fortino Vela Peón

A genetic algorithm approach to improve the conservation of centralities in reverse engineered transcriptional regulatory networks

Holger Weishaupt, Patrik Johansson, Christopher Engström, Sergei Silvestrov, Sven Nelander, Fredrik J Swartling

1.06.16: 18.00-18.30

Welcome Reception

Thursday June 2

SCS3 SPECIAL AND CONTRIBUTED SESSIONS SCS3			
1	2.06.16: 9.00-10.30	Chair: Cecilio Mar-Molinero, Co-Chair: Timothy M. Young	Data Analysis / Regression
		Extension of Simple Logistic Regression as Variable Selection Technique in SNP Data Analysis	Nazatulshima Hassan, Gabriela Czanner, Andrea L Jorgensen, Marta García-Fiñana
		Visualising model selection in regression	Cecilio Mar-Molinero, Carlos Serrano-Cinca, Fabiola Portillo
		Predicting and Correlating the Strength Properties of Wood Composite Process Parameters by Use of Boosted Regression Tree Models	Dillon M. Carty, Timothy M. Young, Frank M. Guess, Alexander Petutschnigg
		AN ENTROPIC APPROACH TO ASSESS SCIENTIFIC RESEARCH OUTPUT	Luiza Bădin, Anca Șerban Oprescu, Silvia Dedu, Florentin Șerban
2	2.06.16: 9.00-10.30	Chair: Tapan Nayak	Data Analysis / Reliability
		Maintenance cost and inspection sample size analysis for a multiunit reliability model with large number of units	Guldal Guleryuz, Ebru Yuksel
		A Bayesian view on some new statistical models for early life failure probability assessment in semiconductor manufacturing	Daniel Kurz, Horst Lewitschnig, Jürgen Pilz
		Simulation based reliability evaluation of maintenance efficiency of repairable system	Makram KRIT, Abdelwaheb REBAI
		Applications of Unbiased Post-randomization to Control Identification Risk in Microdata Release	Tapan K. Nayak
3	2.06.16: 9.00-10.30	Chair: Jozef Komorník, Co-Chair: Sergey Silvestrov	Option Theory

Numerical methods on European Option Second order asymptotic expansions for Multiscale Stochastic Volatility	Betuel Canhanga, Anatoliy Malyarenko, Jean-Paul Murara, Ying Ni, Milica Rancic, Sergei Silvestrov
Pricing European Options under two-dimensional Black-Scholes Partial Differential Equation by using the Crank-Nicholson Finite Difference Method	Jean-Paul Murara, Betuel Canhanga, Anatoliy Malyarenko, Ying Ni, Sergei Silvestrov
Modeling of parallel development of bond market indices	Jozef Komorník, Magda Komorníková, Tomáš Bacigál, Cuong Nguyen

2.06.16: 10:30-11:00	Coffee Break
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SCS4	SPECIAL AND CONTRIBUTED SESSIONS SCS4
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1	2.06.16: 11.00-13.15	Chair: Dimitrios Konstantinides, Co-Chair: Vasile Preda	Economy / Finance / Risk
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Life annuity portfolios: risk-adjusted valuations and suggestions on the product attractiveness	Valeria D'Amato, Emilia Di Lorenzo, Albina Orlando, Marilena Sibillo
Asymptotic Ruin Probabilities for a Multidimensional Renewal Risk Model with Multivariate Regularly Varying Claims	Konstantinides Dimitrios, Li Jinzhu
A Different Approach of Box-Jenkins Analysis Outlined by Romanian Economic Growth and Income Inequality	Carmen C. Gheorghe, Vasile Preda, Silvia Dedu
Quality Adjustments in Price Indexes for ICT Goods in Poland	Anna Król
Risk assessment and survival models involving truncated and censored random variables using information measures	Silvia Dedu, Vasile Preda, Muhammad Sheraz
Dependent credit-rating migrations: coupling schemes, estimators and simulation	Dmitri V. Boreiko, Serguei Y. Kaniovski, Yuri M. Kaniovski, Georg Ch. Pflug
Index of Financial pressure and Financial Crisis Forecasting (Fluid approach)	Ognjen Vukovic

2	2.06.16: 11.00-13.00	Chair: Jan Ámos Víšek, Co-Chair: Lino Sant	Estimators
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Nonparametric Estimation of the measure associated with the Lévy-Khintchine Canonical Representation	Mark Anthony Caruana
An analysis of a Rubin and Tucker estimator	Mark Anthony Caruana, Lino Sant
Representation of SW-estimators	Jan Ámos Víšek

On maximum likelihood estimators and their modifications: multivariate case	Aleksander Zaigrajew
Robust inference with minimum dual divergence estimators for moment condition models	Aida Toma, Amor Keziou
Testing for Co-bubble Behaviour in Economic and Financial Time Series	Andria C. Evripidou

3	2.06.16: 11.00-13.15	Chair: Jang Schiltz, Co-Chair: István Fazekas	Models and Modeling
		A niche-structured individual based model with connectivity	Marc Joannides
		A Mixed Effects Height-Diameter Model Based on Univariate Diffusion Process	Petras Rupšys, Edmundas Petrauskas
		A population evolution model and its applications to random networks	István Fazekas, Csaba Noszály, Attila Perecsényi
		An intervention analysis based on the GARCH model	Norio Watanabe, Masaki Nagashima
		On strategically equivalent contests	Jean-Daniel Guigou, Bruno Lovat, Jang Schiltz
		Evaluating Hog Prices in Mexico	Francisco Ernesto Martínez-Castañeda, Ana Lorga da Silva
		Monte Carlo algorithms for Markov jump processes and their ergodicity properties	Wojciech Niemirow

	2.06.16:13:00-14.00	Lunch
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Excursion	2.06.16: 14.00-19.00	Half Day Excursion
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Friday June 3

	3.06.16: 9.00-9.45	CMSIM Members Meeting
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Main Salle	3.06.16: 9:45-10:30	Plenary Session (Chair: Raimondo Manca) Hans - J. Lenz Freie Universität Berlin, Germany	Knowledge based Tax Fraud Investigation
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	3.06.16: 10:30-11:00	Coffee Break
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Main Salle	3.06.16: 11.00-11.45	Demography Project Christos H Skiadas ManLab, Technical University of Crete	Recent trends, Healthy Life Expectancy, Quantitative and Qualitative Estimates, Conferences on Demography, Publications
Main Salle	3.06.16: 11.45-12.30	Plenary Session (Chair: Terry Mills) Jean Marie Robine INSERM/EPHE and INED, France	Can we use the highest reported age at death as proxies of the maximum life span?
	3.06.16: 12.30-13.00	CMSIM Committee Meeting	
	3.06.16: 13:00-14.00		Lunch
SCS5		SPECIAL AND CONTRIBUTED SESSIONS SCS5	
1	3.06.16: 14.00-15.10	Chair: Sally McClean	Data Analysis
		Shapes classification by integrating currents and functional data analysis	S. Barahona, P. Centella, X. Gual-Arnau, M.V. Ibáñez, A. Simó
		The difficulties of the access to credit for the SMEs: an international comparison	Raffaella Calabrese, Cinzia Colapinto, Anna Matuszyk, Mariangela Zenga
		The Analysis of student paths at the University using the Multivariate Joint Models	Marcella Mazzoleni
		Almost graduated, close to employment? Taking into account the characteristics of companies recruiting at a university job placement office	Franca Crippa, Mariangela Zenga, Paolo Mariani
2	3.06.16: 14.00-15.10	Chair: Nikolaos Farmakis, Co-Chair: Govanni Pistone	Distributions
		TRUNCATED NEGATIVE EXPONENTIAL DISTRIBUTION	Farmakis Nikolaos, Papatsouma Ioanna
		Bayes and Krige: generalities	Giovanni Pistone, Grazia Vicario
		Modelling economic count data by Gaussian distributions with complex parameters	Jose Rodríguez-Avi, Maria Jose Olmo-Jimenez

		Quartile Method Estimation of Two Parameter Exponential Distribution Data with Outliers	Entisar A. Elgmati, Nadia B. Gregni
3	3.06.16: 14.00-15.10	Chair: Andranik Tangian	Data Analysis / Political Spectrum Analysis
		Estimating the representativeness of German parties and of the Bundestag using the VAA data	Andranik Tangian
		Visualizing political spectrum of Germany by contiguously ordering the party policy profiles	Andranik Tangian
		A Topological Discriminant Analysis	Rafik Abdesselam
		Data Driven Modelling of Thermal Systems in Electric and Hybrid Vehicles	Gregor Gregorčič, Gernot Herschold-Pliessnig, Peter Drage
	3.06.16: 15:00-15:30		Coffee Break
SCS6		SPECIAL AND CONTRIBUTED SESSIONS SCS6	
1	3.06.16: 15.30-18.00	Chair: Raimondo Manca, Co-Chair: Guglielmo D'Amico	
		Study of Human Migration into EU Area: a Semi-Markov Approach	Guglielmo D'Amico, Jacques Janssen, Raimondo Manca, Donatella Strangio
		Multi-state model for evaluating conversion options in life insurance	Guglielmo D'Amico, Montserrat Guillen, Raimondo Manca, Filippo Petroni
		Detecting change-points in Indexed Markov chains with application in finance	Guglielmo D'Amico, Ada Lika, Filippo Petroni
		Volatility forecasting by means of a GARCH model: accuracy, entropy and predictability	Guglielmo D'Amico, Filippo Petroni, Flavio Pratico
		A Dynamic Approach to the Modeling of Poverty	Guglielmo D'Amico, Philippe Regnault
2	3.06.16: 15.30-18.00	Chair: Sergey Silvestrov, Co-Chair: Daniel Uys	Data Analysis
		WEIGHTING AS A METHOD OF OPTIMIZING AN INDEX'S DIAGNOSTIC PERFORMANCE. THE CASE OF ATTICA STUDY IN GREECE	Fragiskos Bersimis, Demosthenes Panagiotakos, Malvina Vamvakari

A Sequential Test for Assessing Agreement between Raters	Sotiris Bersimis, Athanasios Sachlas, Subha Chakraborti
Comparison of complex and simple discriminant analysis approaches on longitudinal designs data	Riham El Saeiti, Gabriela Czanner, Marta García-Fiñana
Using graph partitioning to calculate PageRank in a changing network	Christopher Engström, Sergei Silvestrov
Clustering Method for Collaborative Filtering applied to applicant's preference determination in the informational system e-Admiterea of the Moldova State University	Natalia Eni, Igor Bogus, Florentin Paladi
Using the common principal component model to estimate covariance matrices with different covariance structures	Daniel Uys
An Introduction to DataSHIELD	Demetris Avraam

3	3.06.16: 15.30-18.00	Chair: Jean-Marie Robine, Co-Chair: A. Kostaki	Health
		Estimating the HALE measurements of the Global Burden of Disease Study: Quantitative Methods and Applications in USA and Japan	Christos H Skiadas
		Healthy life years: Which age groups contribute most and what has changed in recent years?	Jana Vrabcova Langhamrova, Jitka Langhamrova, Tomas Fiala, Jindrich Klufa
		A method for the evaluation of Health trends in Greece, 1961-2014	K. N. Zafeiris, C. H. Skiadas
		Spatial Bayes Lung Cancer Incidence Modelling	Janet Chetcuti, Lino Sant
		Population Ageing and Demographic Aspects of Mental Diseases in the Czech Republic	Kornélia Cséfalvaiová, Jana Langhamrová, Jitka Langhamrová
		A simple and effective technique for forecasting mortality patterns	K. Zafeiris
		Recent Mortality trends in Greece	K. Zafeiris, A. Kostaki

4	3.06.16: 15.30-18.00	Chair: Teresa Oliveira	Special Session (Data Analysis Methods)
		Stress Dependence and Enforced Regression Paradigm	Jerzy K. Filus and Lidia Z. Filus
		Monte Carlo Methods Applied in Health Research	José A. Pereira, Luzia Mendes, Antonio Costa, and Teresa Oliveira
		Latin Squares and Related Structures in Design of Experiment: a Statistical Perspective	Petya Valcheva, Teresa A. Oliveira

PS	3.06.16: 18:00-18:30	POSTER SESSION (The list is at the end of the program)	POSTER SESSION
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	3.06.16: 20.00-23.00		Farewell Dinner
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Saturday June 4

SCS7 SPECIAL AND CONTRIBUTED SESSIONS SCS7			
1	4.06.16: 9.00-10:30	Chair: P.M. Robinson, Co-Chair: Yiannis Dimotikalis	Time Series Analysis
		Time Series Analysis of Online Ratings Data	Yiannis Dimotikalis
		Spatial Modelling with Trends	P. M. Robinson
		Algebra of exploratory factor analysis with more variables than observations	Nickolay T. Trendafilov, Sara Fontanella, Kohei Adachi
		PM10 concentrations and back trajectories analysis in the Amazon rainforest after a round year	Daniel Moran-Zuloaga, Christopher Poelhker, Mira Poelhker, Jorge Saturno, Florian Ditas, David Walter, Isabella Hrabec de Angelis, Xuguang Chi, Paulo Artaxo, Meinrat O Andreae
		Turnover Analysis in Manpower Planning	Evy Rombaut, Marie-Anne Guerry
2	4.06.16: 9.00-10:30	Chair: Robert Aykroyd, Co-Chair: Jana Langhamrova	Mortality / Population
		Bayesian modelling of temperature related mortality with latent functional relationships	Robert G Aykroyd
		Differences in Mortality according to Marital Status in the Czech Republic	Tomas Fiala, Jana Langhamrova, Jitka Langhamrova, Jindrich Klufa
		Assessment of current trends in adult mortality in the context of economic changes in Russia	Victoria Semyonova, Tamara Sabgayda
		The Population Projections under Different Sex Ratio at Birth Scenarios in Azerbaijan	Ismet Koc, Mehmet Ali Eryurt

Impact of early pregnancy when domestic delivery is a question for high MMR in India

BARUN KUMAR MUKHOPADHYAY

3	4.06.16: 9.00-10:30	Chair: Maria Symeonaki, Co-Chair: Mehmet Mendes	Society / Economy
		Gender-based differences on the impact of the economic crisis on labour market flows in Southern Europe	Maria Symeonaki, Maria Karamessini, Glykeria Stamatopoulou
		Which Effect Size Measure Should be reported for One-Way and Two Way ANOVA Models	Hüseyin Palazoğlu, Soner Yiğit, Mehmet Mendes
		Measuring School-to-Work Transition Probabilities in Europe with Evidence from the EU-SILC	M. Symeonaki, M. Karamessini, G. Stamatopoulou
		Allied the relative risk with initiation of contraceptive use in India and its populous state Uttar Pradesh	ROHIT KUMAR SINGH
		Bankruptcy prediction based on Bayesian estimation of logistic regression model with random effects	Sami Mestiri
		Quantitative trends in Engineering Education media	Dvora Toledano –Kitai, Zeev Volkovich, Katerina Korenblat

4.06.16: 10:30-11:00		Coffee Break	
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SCS8		SPECIAL AND CONTRIBUTED SESSIONS SCS8	
1	4.06.16: 11:00-13:00	Chair: Christos H Skiadas, Co-Chair: Demetris Avraam	Mortality
		A 4-parameter model for the force of mortality based on a second order approximation for the first exit time densities	Christos H. Skiadas
		Forecasting mortality trends throughout a three-way data analysis	Giuseppe Giordano, Steven Haberman, Maria Russolillo
		Investigates the Attitude of Disabled Women towards the Child birth in the City of Tehran	Ali Pezhhan and Parvaneh Afshary
		A mechanistic model of mortality dynamics	Demetris Avraam, Bakhtier Vasiev
		Tuberculosis in Brazil: New cases, healing and abandonment in relation to level of education in the Brazilian States	Edwirde Luiz Silva Camêlo, Dalila Camêlo Aguiar, Tânia M. R. Monteiro de Figueiredo, Andrés González Carmona, Ramón Gutiérrez Sánchez

Fertility Puzzle in India: Some Plausible explanation	Sanjay K Mohanty
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2	4.06.16: 11:00-13:00	Chair: Marie-Anne Guerry	Data Analysis
		Which Effect Size Measure Should be reported for One-Way and Two Way ANOVA Models	Hüseyin Palazoğlu, Soner Yiğit, Mehmet Mendeş
		Ignoring non-diagonalizable matrices in social sciences	Pieter-Jan Pauwelyn, Marie-Anne Guerry
		Rate of Convergence in Fuzzy non Homogeneous Markov Systems	Maria Symeonaki
		Least-square approximation using piecewise power-exponential functions	Sergei Silvestrov, Karl Lundengård, Milica Rančić
		Parallel stratified MCMC sampling of AR-HMMs for stochastic time series prediction	I. Róbert Sipos

3	4.06.16: 11:00-13:00	Chair: Valerie Zirardin, Co-Chair: Terry Mills	Data Analysis in Society
		Measuring Inequality in Society	K.C. Chan, C.T. Lenard, T.M. Mills, Ruth F.G. Williams
		Analysis of evolution of scores of the Program for International Student Assessment through analysis of information	Valérie Girardin, Justine Lequesne, Olivier Thévenon
		Evaluating Performances of Different Multivariate Normality Tests by Using Multidimensional Scaling Technique	Soner Yiğit, Mehmet Mendeş
		Multidimensional Scaling Analysis for Re-analyzing Results of Simulation Studies	Sone Yiğit, Hamit Mirtagioğlu, Mehmet Mendeş
		Neural Networks Modelling for Estimation Total Waiting Time By Shortest Job First (SJF) Algorithm	Sibel Senan, Ruya Samli

4.06.16: 13:00-14.00	Lunch
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1	4.06.16: 14.00-14.30	Members and Committee Meeting
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4.06.16: 14.30-15:00	Closing Ceremony
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4.06.16: 15.00-15.30		Fair Trade Tea and Coffee	
Excursion	5.06.16	Sunday June 5 (8:45-18:00)	Full Day Excursion

PS	Poster Titles	Poster Authors
	On the use of Support vector Machines for the Description of Demographic Patterns	Anastasia Kostaki, Javier M. Moguerza, Alberto Olivares, Stelios Psarakis
	An R Package for Discrete Beta Kernel Graduation of Probabilities of Dying	Angelo Mazza, Antonio Punzo
	Some New Methods for Goodness-of-Fit	Andrey Feuerverger
	Pairwise likelihood estimation based on a sample of pairs	Ioulia Papageorgiou, Irini Moustaki
	Consumer Durables Possession Information for the Household Situation Modelling	Marta Dziechciarz-Duda, Anna Król
	Numerical results of critical stock price for American put options with exercise restrictions	Domingos Djinja
	American-style Asian Options Under Jump-diffusion Processes with Arithmetic Average	Stefane Saize
	Pricing Piecewise barrier Options	Tomé Eduardo Sicaio
	Characterizations of distributions by extended samples	M.Ahsanullah
	A study using data mining with density algorithm based scan algorithm with noise (DBSCAN) in clustering profiles of employees absenteeists and presenteeists	R. P. Ferreira, A. Martiniano, R. J. Sassi
	Applying Ant Colony Optimization and Kohonen Self-Organizing Map in Vehicle Routing and Scheduling Problems	R. P. Ferreira, A. Martiniano, Ar. Ferreira, Al. Ferreira, R. J. Sassi
	A Study on intelligent dashboard support or decision making in business courier	R. P. Ferreira, A. Martiniano, A. Ferreira, K. R. Prado, R. J. Sassi
	Germination and seedling emergence model of bush bean and maize in different physical soil characteristics	Behnam Behtari, Adel Dabbag Mohammadi Nasab

