1st International Symposium &10th Balkan Conference on Operational Research (BALCOR 2011)

22 - 24 September 2011, Thessaloniki, Greece

Program outline

	Thursday 22 September			Friday 23 September			Saturday 24 September		
9.00 - 9.30	*Registration*			*Registration*			*Registration*		
				Room A			Room A		
9.30 - 10.15	*Opening Session* *H. Papapanagos , University of Macedonia (Greece), Vice Rector of Strategic Planning & Investments* ***A. Migdalas** , Aristotle University of Thessaloniki (Greece, Chair)* *N. Matsatsinis , Technical University of Crete (Greece, O.R. Society chairman)* *V. Kostoglou , ATEI of Thessaloniki (Greece, O.R. Branch Macedonia-Thrace chairman)*			Plenary 2: **N. Mladenovic**, *University of Belgrade (Serbia) and Brunel University (U.K.)* "Variable neighborhood search for the travelling salesman problem and its variants"			Plenary 3: **L. Liberti,** *Ecole Polytechnique (France)* "Combinatorial Distance Geometry: the meeting point between proteins and mathematics"		
				Room A	Room B	Room C	Room A	Room B	Room C
10.15 - 11.00	Plenary 1: **V. Paschos**, *Universite Paris Dauphine (France)* "Bridging the gap between exact computation and polynomial approximation"			Session 13	Session 14	Session 15	Session 28	Session 29	Session 30
11.00 - 11.30	*Coffee Break*			*Coffee Break*			*Coffee Break*		
	Room A	Room B	Room C	Room A	Room B	Room C	Room A	Room B	Room C
11.30 - 13.00	Session 1	Session 2	Session 3	Session 16	Session 17	Session 18	Session 31	Session 32	
13.00 - 13.45	*Lunch*			*Lunch*			*Closing Session*		
13.45 - 14.00							*Bus Departure from Holiday Inn Thessaloniki for Excursion*		
14.00 - 14.30									
	Room A	Room B	Room C	Room A	Room B	Room C			
14.30 - 16.00	Session 4	Session 5	Session 6	Session 19	Session 20	Session 21			
16.00 - 16.30	*Coffee Break*			*Coffee Break*					
	Room A	Room B	Room C	Room A	Room B	Room C			
16.30 - 18.00	Session 7	Session 8	Session 9	Session 22	Session 23	Session 24			
18.00 - 18.30	*Coffee Break*			*Coffee Break*					
18.30 - 20.00	Session 10	Session 11	Session 12	Session 25	Session 26	Session 27			
20.30				*Bus Departure from Holiday Inn Thessaloniki for Dinner*					
21.00				*Best paper awards in sponsored streams* *Gala Dinner*					

Room A: Ismini (http://www.hithessaloniki.gr/default.aspx?lang=en-GB&page=43)
Room B: Menelaos (http://www.hithessaloniki.gr/default.aspx?lang=en-GB&page=45)
Room C: Klearchos (http://www.hithessaloniki.gr/default.aspx?lang=en-GB&page=44)

Thursday 22th of September		
9.00 - 9.30	*Registration*	
9:30 - 10:15	*Opening Session* ***H. Papapanagos*** *, University of Macedonia (Greece), Vice Rector of Strategic Planning & Investments* ***A. Migdalas*** *, Aristotle University of Thessaloniki (Greece, Chair)* ***N. Matsatsinis*** *, Technical University of Crete (Greece, O.R. Society chairman)* ***V. Kostoglou*** *, ATEI of Thessaloniki (Greece, O.R. Branch Macedonia-Thrace chairman)* *(Ismini Room)*	
10:15 - 11:00	Plenary 1: **V. Paschos,** Universite Paris Dauphine (France) *"Bridging the gap between exact computation and polynomial approximation"* (Ismini Room)	
11:00 - 11:30	*Coffee Break*	

	Session 1: **Multibojective Optimization** (Ismini Room) **Chairman: J. Psarras**	**Session 2:** **Game Theory** (Menelaos Room) **Chairman: G. Kozanidis**	**Session 3: Modelling** (Klearchos Room) **Chairman: A. Georgiou**
11:30 - 13:00	*Optimization of Media Plan Efficiency* Milan Stanojević, Dragana Makajić-Nikolić and Nikola Svitlica	*An Approach to Product Line Design Optimization using Conjoint Data* Marija Kuzmanovic and Milan Martic	*A single machine production scheduling model with variable processing times* M. Karimi-Nasab and Ioannis Konstantaras
	Duality for multiple objective fractional programming with generalized type-I univexity Ioan M. Stancu-Minasian and Andreea Madalina Stancu	*Factors Affecting Cooperation in One-Shot Prisoner's Dilemma: Experimental Evidence* Milena Djurovic, Marija Kuzmanovic and Milica Bulajic	*Optimization of Working Shifts in Call Center via Discrete Differential Evolution* Raimundo Ronilson L. Rosário, Angela Olandoski Barboza, Rosely Antunes Souza and Antônio Sérgio Coelho
	Optimization over Stochastic Integer efficient Set Chaabane Djamal and Mebrek Fatma	*Mixed integer bilevel programming for optimal bidding strategies in day-ahead electricity markets with indivisibilities* George Kozanidis, Eftychia Kostarelou, Panagiotis Andrianesis and George Liberopoulos	*Modelling Advertising Scheduling to Improve Media Planning* Dragana Makajic-Nikolic, Milica Kostic-Stankovic and Tamara Vlastelica-Bakic
	Multiobjective job sequencing optimisation in large scale industrial systems: Compensatory versus non compensatory approaches Ioanna Makarouni, John Psarras and Yannis Siskos		*Modeling and Optimization of Job Scheduling in Concrete Pumping Operations* Andreas Tosis and Andreas Georgiou
13:00 - 14:30	*Lunch*		

	Session 4: **Multicriteria Decision Making I** (Ismini Room) **Chairman: Y. Siskos**	**Session 5:** **Heuristics in OR** (Menelaos Room) **Chairman: P. Adamidis**	**Session 6:** **Inventory Management** (Klearchos Room) **Chairman: I. Konstantaras**
14:30 - 16:00	*Internal Customer Satisfaction In Healthcare Organizations: A Multicriteria Gap-Analysis Approach* Vassilios Chr. Fortsas, Aikaterini Velimvasaki, Evangelos Grigoroudis and Nikolaos F. Matsatsinis	*Hybrid Genetic Algorithm for solving of Maximum Betweenness Problem* Aleksandar Savic, Jasmina Fijuljanin and Jozef Kratica	*A model for rail freight car inventory process* Milos Milenkovic, Nebojsa Bojovic and Resad Nuhodzic
	Comparison of weight distributions in multi-attribute value tree theory Jyri Mustajoki	*An Efficient Hybrid Algorithm for Locating Long-Term Care Facilities* Zorica Stanimirovic, Miroslav Maric and Srdjan Bozovic	*A lost sale K-stages serial supply chain with (s, S) policies, Poisson demand and exponential lead times* Michael Vidalis and Michael Geranios
	Evaluating e-government sites - a multicriteria approach Panagiotis Manolitzas, Athanasios Vozikis, Denis Yannacopoulos and Nikolaos Tsotsolas	*Iterative local search methods for the talent scheduling problem* Yury Kochetov	*A multi-level production scheduling model for two stage flowshop* M. Karimi-Nasab and M.R. Ghodoosi
	Innovation Management Software Exploiting Multiple Criteria Analysis: The Case of Innovation Centre of Crete Georgia Kyriakaki, Pavlos Delias, Evangelos Grigoroudis and Nikolaos Matsatsinis	*Optimization of student personal course schedules with Evolutionary Algorithms* Panagiotis Adamidis and Georgios Kinigopoulos	*Optimal pricing and replenishment policy of a two warehouse inventory model with non instantaneous deteriorating items* Iris Pandora Krommyda, Konstantina Skouri and Ioannis Konstantaras

Time			
16:00 - 16:30	*Coffee Break*		
16:30 - 18:00	**Session 7:** **Multicriteria Decision Making II** (Ismini Room) **Chairman: Y. Siskos**	**Session 8:** **Parallel processing in OR** (Menelaos Room) **Chairman: K. Margaritis**	**Session 9: Project Management** (Klearchos Room) **Chairman: G. Aretoulis**
	Development of Multicriteria Index System and Weighting Optimization for a District Heating System Haichao Wang, Wenling Jiao, Risto Lahdelma and Pinghua Zou	*A multi-GPU implementation and performance model for the standard simplex method* Xavier Meyer, Paul Albuquerque and Bastien Chopard	*Selection methods: How we pick change projects* Vladimir Obradovic, Zorica Mitrovic and Slavica Cicvaric Kostic
	Using DEMATEL Method for Cause and Effect Relations of BSC in Universities of Iran Abdolhamid Safaei Ghadikolaei, I-Shuo Chen, Sarfaraz Hashemkhani Zolfani and Zeinolabedin Akbarzadeh	*MPI Parallelization of Bee Colony Optimization* Tatjana Davidovic, Dusan Ramljak, Milica Selmic and Dusan Teodorovic	*Regulating Time-Cost Project Targets via Monte Carlo Methods* *Zohar Laslo and Gregory Gurevich*
	OWA Operators in Managerial Decision Making Process Milovan Ilic and Vladimir Skoric	*Large scale data mining models via parallel regularized RBF Neural Networks* Ioannis G. Kokkinos and Konstantinos G. Margaritis	*Performance management system implementation: Case study from transitional country* Jankulovic Aleksandar and Skoric Vladimir
	Value focused portfolio selection via a synergy of MACBETH & UTA II multicriteria techniques Panos Xidonas, Christian Hurson and John Psarras	*A parallel implementation of the revised simplex algorithm using OpenMP: some preliminary results* Nikolaos Ploskas, Nikolaos Samaras and Konstantinos Margaritis	*Construction Project Managers' Cognitive Abilities, Personality and Knowledge* Odise Laska, Georgios Aretoulis, Christoforos Triantafillidis and Fevronia Striagka
18:00 - 18:30	*Coffee Break*		
18:30 - 20:00	**Session 10:** **Analytic Hierarchy Process** (Ismini Room) **Chairman: J. Papathanasiou**	**Session 11:** **Computational Operational Research** (Menelaos Room) **Chairman: N. Samaras**	**Session 12:** **Quality Management** (Klearchos Room) **Chairman: Ch. K. Georgiadis**
	Machine tool selection based on AHP integrated with information axiom Aykut Kentli and Serhat Akbas	*An experimental study of bicriteria models for robust timetabling* Dimitrios Gkortsilas and Christos Zaroliagis	*Advancing QFD to improve service quality* Andreas Georgiou, Konstantina Kamvysi, Andreas Andronikidis and Katerina Gotzamani
	Using hybrid MCDM approach for selecting the best multi-role artist of rock bands in 2000s Akbar Alem Tabriz, Sarfaraz Hashemkhani Zolfani, Mohammad Hasan Aghdaie and Meysam Donyavi Rad	*Experimental analysis of selective uncrossing as a modification to the 2-Opt technique for solving the Euclidean traveling salesman problem* Esther Segura and Idalia Flores	*Evaluation of Educational and Scientific Quality of Serbian Universities from the Employees' Aspect* Slavica Jovetic, Nenad Stanisic, Dusica Semencenko and Marija Mosurovic
	AHP Applications on Machine Selection Problems Aykut Kentli and Güçlü Uçak	*A Markov-based Decision Model of Tax Evasion for Risk-averse Firms in Greece* Dimitrios Hristu-Varsakelis and Nikolaos Goumagias	*Service quality evaluation in the tourism industry: A SWOT analysis approach* Marianna Tsitsiloni, Evangelos Grigoroudis and Constantin Zopounidis
	Performance evaluation by Fuzzy MCDM base on the balanced scorecard of Private Banks in Iran Akbar Alem Tabriz, Iman Khanjani and Meysam Donyavi Rad	*An experimental investigation of a primal-dual exterior point Simplex algorithm* Themistoklis Glavelis, Nikolaos Samaras and Konstantinos Paparrizos	*Optimizing the Quality of Multimedia Information Experience in E-commerce: An Empirical Examination* Eugenia Papaioannou, Christos K. Georgiadis, Costas Assimakopoulos and Athanasios Manitsaris

Friday 23th of September		
9.00 - 9.30	*Registration*	
9:30 - 10:15	Plenary 2: **N. Mladenovic**, University of Belgrade (Serbia) and Brunel University (U.K.) *"Variable neighborhood search for the travelling salesman problem and its variants"* (Ismini Room)	
10:15 - 11:00	**Session 13: OR in Environment & Sustainable Development** (Ismini Room) **Chairman: G. Arabatzis**	**Session 14: Graphs and Networks** (Menelaos Room) **Chairman: A. Sifaleras**	**Session 15: Forecasting & OR** (Klearchos Room) **Chairman: Th. Kalantzis**
	Towards an Evaluation of Sustainable Development: A Statistical Approach Veljko Jeremic, Sonja Isljamovic, Natasa Petrovic and Zoran Radojicic	*Determining the Minimum Number of Warehouses and their Space-Size for Storing Compatible Items* Dimitra Alexiou and Stefanos Katsavounis	*Econometric models and forecasting* Dobrodolac Seregelj Tinde
	Analysis of the urban air pollution in Bucharest Viorel Petrehus, Ileana Armeanu and Camelia Slave	*Use of dynamic trees in the dual network exterior point simplex algorithm for the minimum cost network flow problem* George Geranis, Konstantinos Paparrizos and Angelo Sifaleras	*Analysing Volatility of Belgrade Stock Market Using Multifractal Analysis* Ana Savic, Goran Zajic and Nenad Kojic
11:00 - 11:30	*Coffee Break*	
11:30 - 13:00	**Session 16: OR in Agriculture** (Ismini Room) **Chairman: B. Manos**	**Session 17: Graph Theory** (Menelaos Room) **Chairman: M. Demange**	**Session 18: Stochastic optimization** (Klearchos Room) **Chairman: N. Tsantas**
	Optimization of agriculture aviation in Republic of Serbia Sonja Jakovljevic and Bisera Andric Gusavac	*About list coloring Grid Graphs* Marc Demange and Dominique De Werra	*Heavy traffic analysis of MIGI1 queue with Markov modulated work and service speed* Mitko Dimitrov
	Bayesian networks for monitoring water loss Camelia Gavrila and Narcisa Teodorescu	*Maximum Induced Matchings in Grids* Ruxandra Marinescu-Ghemeci	*Statistical Tests Based on Bans* Alexander Grusho and Elena Timonina
	Enhancing Web-Spatial DSS interactivity with parallel computing: The case of bio-energy economic assessment in Greece Dimitris Kremmydas, M.I. Haque and Stelios Rozakis	*Incidence Graphs of Bipartite G-Graphs* Cerasela Tanasescu, Alain Bretto and Andreea Madalina Stancu	*Measuring inflation dynamics in Central and Southeastern Europe within the Markov switching model approach* Zorica Mladenovic
	A bilevel programming model for farm planning Christina Moulogianni, Thomas Bournaris, Basil Manos and Stefanos Nastis	*Selective coloring in interval graphs: an on-going project* Marc Demange and Petrica Pop	*Modeling intra and inter-department mobility via multivariate Markov process* Vassilis Dimitriou, Andreas Georgiou and Nikolas Tsantas
13:00 - 14:30	*Lunch*	
14:30 - 16:00	**Session 19: Data Envelopment Analysis** (Ismini Room) **Chairman: E. Stiakakis**	**Session 20: TSP & Vehicle routing problem** (Menelaos Room) **Chairman: N. Mladenovic**	**Session 21: Risk Management** (Klearchos Room) **Chairman: D.H. Varsakelis**
	Measuring the Operational Efficiency using Data Envelopment Analysis of a Greek Internet Service Provider Charalampos Apostolopoulos, Ioannis Karamitsos and Christos Apostolopoulos	*Vehicle-routing with load balancing for work planning* Moshe Eben Chaime, Boaz Shneider, Dani Gilad, and Ilan Halachmi	*Using FMEA for analysis human risk in mining* Minja Marinović and Biljana Panić
	Applied Data Envelopment Analysis for Benchmarking Technique Marilena Aura Din	*A 3\2- Approximation Algorithm for the Three Depots Hamiltonian Problem* Aristotelis Giannakos, M'Hand Hifi, Rezika Kheffache and Rachid Ouafi	*Automatic Identification of Low-Risk Trading Opportunities in Sport Betting Exchange Markets* Marios Ioulianou, Ioannis Christofi, Kyriacos Talattinis, Konstantinos Chalkias and George Stephanides
	Evaluating Greek football clubs Performance with network DEA type models Thanasis Bouzidis and Giannis Karagiannis	*Two new variants of Christofides heuristic for the Static TSP and a computational study of a nearest neighbor approach for the Dynamic TSP* Christos Orlis, George Kartsiotis, Nikolaos Samaras, and Konstantinos Margaritis	*Impact Assessment through Collaborative Asset Modeling: The STORM-RM approach* Theodoros Ntouskas, Panayiotis Kotzanikolaou and Nineta Polemi
	Explaining capacity and efficiency variations across Greek public hospitals: A system-wise two-stage DEA approach Roxani Karagianni	*Multistart approach for exact vehicle routing* Samira Almoustafa, Nenad Mladenovic, and Said Hanafi	

16:00 - 16:30	Coffee Break		
16:30 - 18:00	**Session 22: Crisis Manageent** (Ismini Room) **Chairman: J.C. Panayiotopoulos**	**Session 23: Combinatorial Optimization** (Menelaos Room) **Chairman: D. Nace**	**Session 24: Probability and Statistics** (Klearchos Room) **Chairman: N. Farmakis**
	A Consistent Design Supporting Structure For Crisis Management Integrating Personal Behaviours Case analysis: The 2009 Australian Bushfire Cerasela Tanasescu and Michel Rudnianski	*Logarithmic-approximations for the relocation problem* Alexander Grigoriev, Alexander Kononov and Maxim Sviridenko	*Non-Asymptotic Optimal Properties of Shiryaev-Roberts Statistical Control Procedures* Gregory Gurevich and Albert Vexler
	Crisis management scenarios in irregular dynamic data spaces Pavlos Petrantonakis and John-Christ Panayiotopoulos	*Finding a minimum-regret Many-to-Many Stable Matching* Pavlos Eirinakis, Dimitrios Magos, Ioannis Mourtos and Panayiotis Miliotis	*Improving certain estimation methods for the generalized Pareto distribution* Jelena Jockovic
	A Critical Systems Metamethodology for Problem Situation Structuring Slavica P. Petrovic	*Lower bounds for the two stage multimedia problem with an active prefetch* Polina Kononova	*Inferences for the some statistical distribution based on record statistics* Ion Mierlus Mazilu, Vasile Preda and Eugenia Panaitescu
	Personalized Crisis Management Manuals John Mamalis, Pavlos Petrantonakis and John-Christ Panayiotopoulos	*Generalization of a multi-period knapsack problem* Xiaokang Cao, Antoine Jouglet and Dritan Nace	*Coefficient of Variation: Connecting Sampling with some Decreasing Distribution Models* Nikolaos Farmakis
18:00 - 18:30	Coffee Break		
18:30 - 20:00	**Session 25: OR Applications** (Ismini Room) **Chairman: V. Kostoglou**	**Session 26: Optimization** (Menelaos Room) **Chairman: V. Kovacevic**	**Session 27: Applied Statistics** (Klearchos Room) **Chairman: O. Moschidis**
	Design and Shape Optimization of a Turkish Tirkeş Bow Aykut Kentli, Sermet Demir and Bülent Ekici	*On variable priorities for solving systems of nonlinear equations* Theodoula N. Grapsa	*Testing the Homoskedasticity/Heteroskedasticity of the Errors Using the White Test. Pattern Classification by K-Variances and Informational Criteria* Daniel Ciuiu
	Searching in Trees and Closets: a Comparison between two Hierarchical Metaphors in Educational Applications Adi Katz	*Integrating Taylor's expansion on the lexicographic approach for unconstrained optimization* Christina D. Nikolakakou, Theodoula N. Grapsa and George S. Androulakis	*A market research analysis of reverse logistics: The case of bio-fuels in Greece* Andreas Kakouris, Ioannis Kourkoutas and Haris Andrianos
	Real Options and Emerging Markets: An Overview Milica Latinovic, Tijana Obradovic and Veljko Dmitrovic	*Minimal Cut Sets Generation Using Reverse Petri Nets* Dragana Makajic-Nikolic and Mirko Vujosevic	*A Survey On the Hausdorff Moment Problem and Entropy Approach* Alin Marian Rusu
	Design and implementation of an innovative dichotomous classification e-key to identify fish species Emmanouil Tolis, George Minos and Vassilis Kostoglou	*Minimal doubly resolving sets of some generalized Petersen graphs* Mirjana Cangalovic, Jozef Kratica, Vera Kovacevic-Vujcic and Milica Stojanovic	*Public sector employees and information systems' security with Data Analysis methods* Vasileios Ismyrlis, Odysseas Moschidis and Jason Papathanasiou
20:30	Bus Departure from Holiday Inn Thessaloniki for Dinner		
21:00	Best paper awards in sponsored streams Gala Dinner		

	Saturday 24th of September		
9.00 - 9.30	*Registration*		
9:30 - 10:15	Plenary 3: **L. Liberti**, Ecole Polytechnique (France) *"Combinatorial Distance Geometry: the meeting point between proteins and mathematics"* (Ismini Room)		
10:15 - 11:00	**Session 28: Military Operational Research** (Ismini Room) **Chairman: R. Jankovic**	**Session 29: OR in Medicine** (Menelaos Room) **Chairman: N. Teodorescu**	**Session 30: Operations Management** (Klearchos Room) **Chairman: J.C. Panayiotopoulos**
	Software Platform for UAV Operations Management Starcevic Dusan and Jovanovic Mladjan	*Data Mining in Medicine: Comparison of the Results of Predictive Neural Networks on Medical Data Acquired in Three Different Time Moments* Marina Dobrota, Milica Bulajic and Zoran Radojicic	*Is it time for Greek companies to adopt XBRL ?* Georgios Blanas, Antonios Stavropoulos and Elisavet Stergiaki
	On Application of Discrete Event Simulation in Armoured and Mechanized Units Research Radomir Jankovic, Momcilo Milinovic, Nebojsa Nikolic and Olivera Jeremic	*Statistical Analysis Based on Logistic Regression in Prostate Cancer* Narcisa Teodorescu and Camelia Gavrila	*A public infrastructure querying and answering system* John Kalligatsis and J-C. Panayiotopoulos
11:00 - 11:30	*Coffee Break*		
11:30 - 13:00	**Session 31: Optimization Methods** (Ismini Room) **Chairman: N. Mladenovic**	**Session 32: OR in the Banking & Finance Industry** (Menelaos Room) **Chairman: E. Livanis**	
	Decentralized control of a platoon of vehicles based on a reduced measurement set Srdjan Stanković and Milorad Stanojević	*Analysis of Competition in Banking Sector of Serbia* Milica Bulajic, Sava Savic and Gordana Savic	
	Energy Efficiency and Techno-economic Analyses of the Combined Heating System Using Gas-fired Boilers for Peak Load Compensation Haichao Wang, Wenling Jiao, Risto Lahdelma and Pinghua Zou	*Optimal Life Insurance, Consumption and Investment Decisions* sabel Duarte, Diogo Pinheiro, Alberto Pinto and Stanley Pliska	
	New method for ranking chess Olympics teams Veljko Jeremic, Aleksandar Djokovic, Mladenovic Nenad and Zoran Radojicic		
13:00 - 13:45	*Closing Session*		
14:00	*Bus Departure from Holiday Inn Thessaloniki for Excursion*		