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PROGRAM OVERVIEW

13th International Conference on Operational Research

September 29 – October 01, 2010.
University of Split, Faculty of Economics
Matice hrvatske 31, 21000 Split
Croatia

www.hdoi.hr/koi2010

Schedule	29th September	30th September	1st October
08:00-13:00	Participants registration	Participants registration	Participants registration
09:00-10:00	Official opening	Plenary lecture III	Plenary lecture V
10:00-11:00	Plenary lecture I	Plenary lecture IV	Three parallel sessions (10:00 – 11:40)
11:00-11:20	Coffee break	Coffee break	
11:20-13:20	Three parallel sessions (including session 1 in honor of Sanjo Zlobec)	Session 2 in honor of Sanjo Zlobec on the occasion of his 70 th birthday	Coffee break (11:40 – 12:00)
13:30-15:00	Lunch break	Lunch break	Three parallel sessions (including session 3 in honor of Sanjo Zlobec from 12:00 to 14:00)
15:00-16:00	Plenary lecture II	Excursion with dinner (Island of Brač)	Lunch break (14:00 – 15:30)
16:00-16:20	Coffee break		Conference closing (15:30 – 16:00)
16:20-18:20	Three parallel sessions		CRORS Annual Meeting (16:00 – 18:00)

Wednesday, 29th September 2010 (1st day)

08:00 – 13:00 Participant registration	
09:00 – 10:00	Official opening – Ceremonial hall
10:00 – 11:00	Plenary lecture I – Ceremonial hall Chair: <u>Luka Neralić</u> Invited speaker: Richard E. Wendell - <i>Tolerance Sensitivity Analysis: Thirty Years Later</i>
11:00 – 11:20	Coffee break
11:20 – 13:20	Three parallel sessions
Session A: Linear and Nonlinear Programming - Ceremonial hall (session 1 in honor of Sanjo Zlobec) Chair: <u>Viljem Rupnik</u>	
A.1 Sensitivity in Data Envelopment Analysis Using an Approximate Inverse Matrix	Luka Neralić Richard E. Wendell
A.2 Quantity Discounts in Supplier Selection Problem by Use of Fuzzy Multi-Criteria Programming	Tunjo Perić Zoran Babić
A.3 The Tourists' Expectations as a Determinant of Responsible Growth of Tourism	Majda Bastič Slavka Gojčić
A.4 Parametric Strategy for the Calculation of a Feasible Point in a Compact Set Defined as the Intersection of a Polyhedron and a Quadratic Form	Ridelio Miranda Pérez Jurgen Guddat
A.5 An Interim Report on Soft Systems Evaluation	Viljem Rupnik
Session B: Multicriteria Decision Making - Room 10 Chair: <u>Lidija Zadnik Stirn</u>	
B.1 Decision Making in Competitiveness of Regiona	Marija Bogataj Samo Drobne
B.2 Enhancing Group Decision Support Systems with Social Software Applications	Christina E. Evangelou Ioannis Chrisovergis Efi Kostopoulou
B.3 Integration of Multicriteria Analysis into Decision Support Concept for Urban Road Infrastructure Management	Nikša Jajac Snježana Knezić Zoran Babić
B.4 Multicriteria Methods in Performing Companies' Results using Electronic Recruiting, Corporate Communication and Financial Reports	Ivana Bilić Branka Marasović Ivana Tadić
B.5 Application of GIS and Mathematical Modelling in Maritime Crisis Situations	Nenad Mladineo Snježana Kezić Nikša Jajac Marko Mladineo

B.6 Rationalization of the Personnel by Analyzing Employees Using Multiple Criteria Decision Making	Ana Podrug Goran Radovanić
Session C: Banking and Finance - Room 11 Chair: <u>Josip Arnerić</u>	
C.1 Motives for Asset Revaluation Policy Choice in Croatia	Željana Aljinović Barać Slavko Šodan
C.2 Fundamental and Technical Analysis on Croatian Stock Market	Veronika Čaljkusić
C.3 Comparison of Value at Risk Approaches on a Stock Portfolio	Šime Čorkalo
C.4 Analysis of Doubt of Croatian Pensioners	Drago Francišković
C.5 Research of Beta as Adequate Risk Measure - Is Beta Still Alive?	Ante Perković
13:30 – 15:00	Lunch break
15:00 – 16:00	Plenary lecture II – Ceremonial hall Chair: <u>Zoran Babić</u> Invited speaker: Lidija Zadnik Stirn – <i>Multiple Criteria Methods with Focus on Analytic Hierarchy Process and Group Decision Making</i>
16:00 – 16:20	Coffee break
16:20 – 18:20	Three parallel sessions
Session A: OR Applications - Ceremonial hall Chair: <u>Višnja Vojvodić Rosenzweig</u>	
A.1 Determining Safety Stock in Multi-Stage Inventory System as Multi-Objective Optimization Problem	Gordan Badurina Kristina Šorić Zoran Babić
A.2 An Interactive Approach for Multiple Criteria Scheduling in a Croatian Hospital	Silvija Vlah Jerić Jose Rui Figueira
A.3 Restructuring of Small Manufacturing Line Control Software Using Modeling	Lado Lenart Miroslav Vrhovec Goran Martinović
A.4 Data Clustering: Applications in Engineering	Zdravko Krpić Ivan Vazler
A.5 In Search of Contextual Variables in a Stochastic DEA Framework: Effect of Regulation on Efficiency of Indian Cement Industry	Simanti Bandyopadhyay
A.6 Creation of Optimum Implementation of The Investment Project	Višnja V. Rosenzweig Hrvoje Volarević

Session B: Statistics and Econometrics - Room 10	
Chair: <u>Elza Jurun</u>	
B.1 Developing Multivariate Confirmatory Technique in Measuring Students Satisfaction with Education Process	Josip Arnerić Ante Prka
B.2 Business Climate Indicator as a Predictor of Croatian Industrial Production	Mirjana Čižmešija Nataša K. Živadinović Petar Sorić
B.3 The Analysis of Monetary Transmission Mechanism in Croatia Using Cointegration Approach	Ksenija Dumičić Irena Čibarić Nikolina Horvat
B.4 Analysis and Forecasting the Volatility of Euro – Dollar Exchange Rates	Pánková Václava Cihelková Eva
B.5 Specifics of the Applications of Multiple Regression Model in the Analysis of the Effects of Global Financial Crisis	Željko V. Račić Biljana T. Baraković
B.6 Cluster and Multicriterial Comparative Regional Analysis – Case Study of Croatian Counties	Elza Jurun Snježana Pivac
Session C: Banking and Finance - Room 11	
Chair: <u>Zdravka Aljinović</u>	
C.1 Designing the Deposits Management Model in Function of Banking Activities Optimization	Ticijan Peruško Robert Zenzerović
C.2 Predicting Sustainable Financial Performance Using Cash Flow Ratios: A Comparison Between MDA and ANN Method	Željana Aljinović Barać
C.3 Markowitz' Model with Fundamental and Technical Analysis – Complementary Methods or Not	Branka Marasović Tea Poklepović Zdravka Aljinović
C.4 Financial Markets and Hedging	Miklavž Mastinšek
C.5 Multivariate and Multicriterial Foreign Debt Analysis of the Selected Transition Economies	Snježana Pivac Mario Pečarić
C.6 Econometric Approach to Difference Equations Modeling of Exchange Rates Changes	Josip Arnerić Lana Kordić

Thursday, 30th September 2010 (2nd day)

08:00 – 13:00 Participant registration	
09:00 – 10:00	Plenary lecture III – Ceremonial hall Chair: Majda Bastič Invited speaker: Christodoulos A. Floudas - <i>Biclustering Methods for Re-Ordering Data Matrices in Systems Biology, Drug Discovery and Toxicology</i>
10:00 – 11:00	Plenary lecture IV – Ceremonial hall Chair: Kristina Šorić Invited speaker: Jose R. Figueira - <i>Electre Methods: Main Features and Recent Developments</i>
11:00 – 11:20	Coffee break
11:20 – 13:20	Session 2 in honor of Sanjo Zlobec on the occasion of his 70th birthday
Session A: Optimization and Applications - Ceremonial hall (session 2 in honor to Sanjo Zlobec) Chair: <u>Luka Neralić</u>	
A.1 Clustering, Classification and the Multy-Facility Location Problem	Adi Ben-Israel
A.2 Magic Moore-Penrose Inverses and Philatelic Magic Squares with Special Emphasis on the Daniels-Zlobec Magic Square	George P. H. Styan
A.3 Some Applications of Parametric Optimization in Statistics	Masoud Asgharian
A.4 Theory and Applications of Degeneracy in Cone Optimization	Henry Wolkowicz
A.5 On the Derivative of Smooth Meaningful Functions	Sanjo Zlobec
13:30 – 15:00	Lunch break
15:00 – 22:00	Excursion to the island of Brač (dinner included) The excursion starts with boarding on the catamaran Krilo in the City Port – Gat sv. Petra. Departure for Supetar at 15:00 pm (duration 30 minutes). Upon arrival on Brač the first destination on this tour will be Škrip and a visit to the Brač Museum with valuable exhibits in the Radojković Tower. After enjoying the view on Vidova Gora (the highest point of all the Adriatic islands) dinner in a local tavern "Vladimir Nazor" with very pleasant atmosphere and authentic and traditionally prepared food. Return to Supetar by bus at 20:30 and arrival by catamaran in Split at 21:30 pm.

Friday, 1st October 2010 (3rd day)

08:00 – 13:00 Participant registration	
09:00 – 10:00	Plenary lecture V – Ceremonial hall Chair: Rudolf Scitovski Invited speaker: Masoud Asgharian - <i>Survival Analysis and Length-Biased Sampling</i>
10:00 – 11:40	Three parallel sessions
Session A: OR Applications - Ceremonial hall Chair: Jose R. Figueira	
A.1 One Criteria Supply Chain Management in Olive Oil Industry	Silvija Vlah Jerić Kristina Šorić
A.2 Some Simple Approaches to Planning the Inventory of Spare Components of an Industrial System	Alenka Brezavšček Alenka Hudoklin
A.3 Short Term Load Forecasting Preprocessing Using Support Vector Clustering	Marin Matijaš Vedran Grčić Slavko Krajcar
A.4 System Approach to the Modelling of the Process of Egg Production on the Farm	Tomislav Guć Marko Hell
A.5 Planning of Training Aircraft Flight Hours	Višnja V. Rosenzweig Anita Domitrović Marko Bubić
Session B: OR Applications and Macroeconomics - Room 10 Chair: Snježana Pivac	
B.1 Re-Examination of the Purchasing Power Parity in Central and Eastern European Economies	Ahmad Z. Baharumshah Jani Bekó Darja Boršič
B.2 On the Dynamics of Skill-Biased Technical Change and the Role of the Policy-Maker	Elvio Accinelli Edgar J Sánchez Carrera
B.3 Quality and Socialization – An Evolutionary Approach	Slađana Pavlinović
B.4 Two-Part Tariffs and Multistage Programming	Ilko Vrankić Zrinka Lukač Mira Oraić
B.5 One Regulation Method in Economic Research for Solving Ill-Conditioned Linear Equations	Dominika Crnjac Milić Miljenko Crnjac
Session C: Banking and Finance - Room 11 Chair: Dragan Jukić	
C.1 Comparing Financial Distress Prediction Models Before and During Recession	Nataša Šarlija Marina Jeger
C.2 Credit Scoring Models in Estimating the Creditworthiness of Small and Medium and Big Enterprises	Robert Zenzerović

C.3 Prediction of Company Bankruptcy Using Statistical Techniques – Case of Croatia	Ivica Pervan Maja Pervan Bruno Vukoja
C.4 Determinants of Bank Profitability in Croatia	Ana Kundid Blanka Škrabić Roberto Ercegovac
C.5 Research of Risk Measure Techniques for Portfolio Optimization on Croatian Stock Market	Ante Prka Anita Udiljak
11:40 – 12:00	Coffee break
12:00 – 14:00	Three parallel sessions
Session A: Optimization and Mathematical Modeling - Ceremonial amphitheater (session 3 in honor to Sanjo Zlobec) Chair: <u>Tihomir Hunjak</u>	
A.1 Stable Group Purchasing Organizations	Greys Sošić Mahseh Nagarajan Hao Zhang
A.2 Kernel-Based Interior-Point Methods For Cartesian $P_*(k)$ - Linear Complementarity Problems Over Symmetric Cones	Goran Lešaja
A.3 Clustering By Searching For Best Cluster-Centers	Rudolf Scitovski Kristian Sabo Ivan Vazler
A.4 Nonlinear Weighted Least Squares Fitting Bass Diffusion Model	Dragan Jukić
A.5 The Equipment Acquisition Process: Analysis for Negotiation	Irena Peharda Tihomir Hunjak
Session B: Linear, Nonlinear and Combinatorial Optimization - Room 10 Chair: <u>Marijana Zekić-Sušac</u>	
B.1 Optimization and Approximation of NC Polynomials with Sums of Squares	Kristijan Cafuta Igor Klep Janez Povh
B.2 Optimal Utilization of Starting Material	Davor Medarić Tomislav Baškarić
B.3 Taxes, Subsidies and Unemployment - A Unified Optimization Approach	Erik Bajalinov
B.4 On the Set-Semidefinite Representation of Nonconvex Quadratic Programs with Cone Constraints	Gabriele Eichfelder Janez Povh
B.5 The Quadratic Assignment Problem with Imprecise Data: The Case of Job Assignment Requiring Coordination	Chiang Kao

B.6 Classification of Entrepreneurial Intentions by Neural Networks, Decision Trees and Support Vector Machines	Marijana Zekić-Sušac Sanja Pfeifer Ivana Đurđević
Session C: Data Analysis, Marketing and other OR Applications - Room 11 Chair: Branka Marasović	
C.1 The Significance of Air Temperature Oscillations in the Last Decade in Split - Croatia	Elza Jurun Milan Hodžić Marie Theres Greguš
C.2 Statistical Analysis of Financial Performance in Erste Bank	Ljilja Celić
C.3 Interdependence Between Relationship Quality Dimensions	Mario Pepur Zoran Mihanović Josip Arnerić
C.4 Analysis of the Degree and the Structure of the Use of Market-Oriented Activities in Adult Education Institutions with a Different Number of Enrolled Students	Zoran Mihanović Josip Arnerić Mario Pepur
C.5 Selecting Appropriate Criterion for Finding Value Adding Wholesale Customers	Dubravko Mojsinović
14:00 – 15:30	Lunch break
15:30 – 16:00	Conference closing – Ceremonial hall
16:00 – 18:00	CRORS Annual Meeting – Ceremonial hall

Notices:

- Authors have 15 minutes to present their paper and 5 minutes for discussion, while plenary speakers have 45 minutes to present their paper and 15 minutes for discussion.
- Registration desk will be on the first floor of the main building each day of the conference from 08:00 to 13:00.
- At registration desk CRORS members can also pay annual membership fee of 100 kunas in cash for year 2010 (for those who have not yet paid).
- Lunch is self served at the student restaurant on the ground floor of the main building (registered participants will receive coupons for free lunches).
- During free time participants can relax at the Funky Business cafe on the second floor of the east wing (Aneks).
- The rooms for sessions (Ceremonial hall, Room 10 and Room 11) are located in the basement of the west wing (Aneks). Every room is equipped with a personal computer and a projector to support presentations using Power Point, Word and PDF files.
- All participants will receive a certificate of participation at the KOI - 2010.