

Belgrade, 25-28 May, 2018

XIII Balkan Conference on Operational Research

Final programme















PROGRAMME OVERVIEW

Frie	day, 25 May - Unive	ersity	of Belgrade, S	Studentski tro	g 1, Be	elgrade			
15:00 – 16:30	BALCOR registration								
16:30 - 17:30	Room RA: Openi	Room RA: Opening ceremony							
17:30 – 19:30	Room RA: Plenary session 1								
Saturday, 26 May - University of Belgrade, Studentski trg 1, Belgrade									
09:30 - 11:00	Parallel sessions								
	Room RB		Room RC		Room RD				
	B5		B12		B22				
11.00 11.00		В14							
11:00 – 11:30	Coffee break								
11:30 – 13:30	D DD	Parallel sessions Parallel sessions							
	Room RB		Room RC			Room RD			
13:30 – 14:00	D13-1	B13-1 B9 B2 Room RB: Tutorial 1							
14:00	Excursion								
	excursion Iday, 27 May - University of Belgrade, Studentski trg 1, Belgrade								
09:30 – 10:30	Room RA: Plenary session 2								
10:30 – 11:00	Coffee break								
11:00 – 12:30	Parallel sessions								
11.00 12.50	Room RA		Room RB Room R		2	Room RD			
				B8		B1			
	B11		B13-2	B7		B15			
12:30 – 13:00	Room RB: SOLUTION'S PRESENTATION								
	Lunch break								
14:30 – 16:30		Parallel sessions							
	Room RB		Room			Room RD			
16.20 17.00	B20		B7 B16						
16:30 – 17:00	Coffee break								
17:00 – 19:00	D DD		Parallel sessions						
	Room RB B6		Room RC B4			Room RD			
	B10		B4 B21			B3-1			
20:30	Gala dinner								
	Closing ceremony								
Mon	day, 28 May - Math	nemat			a 36, E	Belgrade			
09:30 - 10:30	Monday, 28 May - Mathematical institute, Kneza Mihaila 36, Belgrade - 10:30 Room M								
		B19							
		B18							
10:30 – 11:00	Coffee break								
11:00 – 12:30	Room M								
	B17 B3-2								
12:30 – 13:30	Room M: Tutorial 2								
12.30 - 15.30			KOOIII IVI:	Tutorial 2					

TOPICS

B1	Banking & Financial Decision Making	B12	Mathematical Programming (Linear &
B2	Combinatorial Optimization &		Nonlinear Programming)
	Integer Programming	B13	Multiple Criteria Decision Analysis & Multi-
В3	Data Envelopment Analysis & Performance		Objective Optimization
	Measurement	B14	Network Optimization &
B4	Data Sciences & Big Data		Telecommunications
B5	Decision Support Systems	B15	O.R. in Agriculture and Forest Management
B6	Game Theory	B16	Operations Management
B7	Heuristics, Metaheuristics & Nature Inspired	B17	Optimization Software
	Optimization Algorithms	B18	Project Management & Scheduling
B8	Locational Analysis	B19	Risk Analysis & Management
B9	Logistics & Supply Chain Management	B20	Statistics, Stochastics & Simulation
B10	Marketing & e-Business	B21	Structural Optimization
B11	Mathematical Modeling & Decision Making	B22	Traffic & Transportation

PLENARY SESSION 1

Oleg Khamisov, Russian Academy of Sciences (Russia) Global Optimization with Nonlinear Support Functions

Leonidas Pitsoulis, Aristotle University of Thessaloniki (Greece) (chair: Vera Kovačević Vujčić)
Optimization in Robust Statistics

PLENARY SESSION 2

Panos Pardalos, Center for Applied Optimization (CAO) University of Florida (USA)

(chair: Nenad Mladenović)

(chair: Nenad Mladenović)

Objective Function Representation in Global Optimization and Applications

TUTORIAL 1

Damir N. Gainanov, Ural Federal University/ Moscow Aviation Institute (Russia) (chair: Vera Kovačević Vujčić)
Graph Theory and Combinatorial Optimization in the Applied Problems of the Freight Railway
Transportations Management

TUTORIAL 2

Saïd Hanafi, University of Valenciennes (France)

(chair: Milorad Vidović)

An Overview of Heuristics Based on Mathematical Programming for the 0–1 Mixed Integer Programming Problem

SOLUTION'S PRESENTATION

Andrijana Bačević, Nemanja Vilimonović, Igor Dabić, Jakov Petorivć, Darko Damnjanović

(chair: **Dragana Makajić Nikolić**)

INFORMS O.R. & Analytics Student Team Competition 2018, Fourth Prize

^{*}The organizers keep the right to make small changes on the program. All changes will be announced on the board.

PARALLEL SESSIONS

09:30 - 11:00

Saturday, May 26

Room RB

Chair - Mirko Vujošević

B5 Decision Support Systems

Index Policies for Preventative Maintenance Tasks in Wind Farms

Jesus M. Pinar-Pérez, Diego Ruiz-Hernandez

Affects of Personality Traits on Decision Support Systems

Pınar Özkurt, Şahika Koyun Yılmaz, Meryem Ezgi Aslan, Vildan Özkır

One Method for Educational Management Based on Predict Further Orientation of the Students

Milan Ranđelović, Dragan Ranđelović, Kristijan Kuk

Data storage and representation for studying problems of prospective electric power systems

Ivan Trofimov, Leonid Trofimov, Sergei Podkovalnikov

Decision support system for product ranking based on sentiment analysis and MCDM under intuitionistic fuzzy environment

Sedef Çalı, Şebnem Yılmaz Balaman

Uncertainty in Design and Management of Humanitarian Logistics Networks: A Literature Review

Şebnem Yılmaz Balaman, Melike Dirican

9:30 - 11:00

Saturday, May 26

Room RC

Chair – Vera Kovačević-Vujčić

B12 Mathematical Programming (Linear & Nonlinear Programming)

Minimization with coupled constraints, quasi-varitaional inequalities - solution methods Milojica Jaćimović, Nevena Mijajlović

miojica sacimovic, Nevena mijajiovic

On a new method for generating random, optimal, linear optimization problems

Nikolaos Samaras, Angelo Sifaleras

Global Optimization: A new covering method combined with a stochastic local search

Ziadi Raouf, Bencherif-Madani Abdelatif

Primal-Dual Partitions in Linear Semi-Infinite Optimization

Maxim Ivanov Todorov, Abraham Barragan, Lidia Hernandez

An Efficient without Direct Function Evaluations Newton's Method for Solving Systems of Nonlinear Equations

Eleftheria Malihoutsaki, Theodoula Grapsa

A Linear Cost Model for 3d Printing Networks

Evgenia Fronimaki, Maria Mavri

An Initialization Strategy for Improving Newton's Method

Theodoula Grapsa

On the Extended Dimensionality of Simple Games

Xavier Molinero, Fabián Riquelme, Salvador Roura, Maria Serna

9:30 - 11:00

Saturday, May 26

Room RD

Chairs – Dušan Teodorović, Milorad Vidović

B22 Traffic & Transportation

User-Optimum Fuzzy Traffic Assignment Problem

Gizem Temelcan, Inci Albayrak, Hale Gonce Kocken

Airline profitability cycles: an undamped system model approach

Nemanja Mijovic, Milica Kalic, Jovana Kuljanin, Manuel Renold

Investigation of The Factors Affecting The Severity of Tramway Accidents in Eskisehir

Kadir Berkhan Akalin, Huseyin Onur Tezcan, Safak Bilgic

Evaluation of Traffic Perception with Robust Regression Analysis

Kadir Berkhan Akalin, Arzu Altin Yavuz, Murat Karacasu, Baris Ergul

A Bi-Level Airport Choice Model (Bacm) in a Multi-Airport Context. The Case of Rome.

Stefania Sinesi, Maria Giovanna Altieri, Mauro Dell'Orco

Modeling and Analysis of the U.S. airline market using a data-driven approach

Soheil Sibdari

The extended parking allocation model for connected vehicles

11:30 - 13:30

Saturday, May 26

Room RB

Chair - Milan Stanojević

B13-1 Multiple Criteria Decision Analysis & Multi-Objective Optimization

Multi-Criteria Decision Making for Smart Specialisation in Serbia

Đuro Kutlača, Lazar Živković, Dijana Štrbac

On Finding a Pattern-Efficient Set of Non-Dominated Vectors to a Multi-Objective Optimization Problem *Bogdana Stanojević*, *Fred Glover*

A Fuzzy Linear Programming Approach to Solve Bi-Level Multi-Objective Linear Programming Problems *Tunjo Perić, Zoran Babić, Sead Rešić*

Analytical Network Process Approach for the Establishment of Industrial Symbiosis Network Ezgi Şen, Banu Yüksel Özkaya

A Probabilistic Approach for Indirect Elicitation of the Preferences of a Decision Maker Barbaros Yet, Ceren Tuncer Şakar

Forecasting the Accession of the Republic of Serbia to the European Union by Using the Analytic Network Process Ana Krstić, Jovana Savić, Predrag Mimović

Applications of Renewable Energy Source Alternatives Prioritization: A Review Irem Duzdar Argun, Baris Kantoglu

Occupational Health and Safety System Assessment for Manufacturing

Barış Kantoğlu, Irem Duzdar Argun, Serkan Sönmez

Sufficient Efficiency Criteria in Multiobjective Fractional Programming with Generalized (F,b,ϕ,ρ,θ) -Type I Univex n-set Functions Andreea Madalina Rusu Stancu, I. M Stancu-Minasian

The MCDM Approach to the Selection of a Supplier for Medium Voltage Distribution Equipment Sanja Puzović, Jasmina Vesić Vasović, Miroslav Radojičić, Vladan Paunović

Multiattribute Methods as a Means for Solving Ecological Problems in Water Resources - Lake Pollution Milena Popović, Bisera Andrić Gušavac, Ana Katić'

Data Processing for Sustainable Mining - Te-Ko Kostolac Open Pit Coal Mine Use Case Nikola Zogović, Snežana Pantelić, Dragan Stošić

11:30 - 13:30

Saturday, May 26

Room RC

Chair - Milorad Vidović

B9 Logistics & Supply Chain Management

Containers Drayage Problem with Simultaneous Routing of Vehicles and Handling Equipment Dražen Popović, Nenad Bjelić, Milorad Vidović

Evaluation and Selection of Manufacturing Companies Based on Fuzzy AHP and Fuzzy Topsis with the Interval Type-2 Fuzzy Sets Nikola Komatina, Snežana Nestić, Danijela Tadić, Mirjana Misita

The Heterogeneous Fleet Vehicle Routing Problem with Light Loads and Overtime: Formulation and Population Variable Neighbourhood Search with Adaptive Memory

Gábor Nagy, Lina Simeonova, Niaz Wassan, Said Salhi

Impact of Consumer preferences for remanufactured products

Deniz Ozdemir

A Literature Review Focus on Multi-Objective and Multi-Criteria Methods in Sustainable Supply Chain Management Busra Nur Sahin

A Green Approach to the External Supply of Raw Materials: a Tabu Search-Based Algorithm *Juan Felipe Bermeo Losada*

An Optimization of the In-Plant Milkrun System - A Case Study Kadir Büyüközkan, Şule Itur Satoğlu

Interpretation of Static Time-Continuous Inventory Model with Stock-Level Dependent Demand Rate and Variable Holding Cost as a Dynamic Discrete-Time System Control Process

Slobodan Antić, Lena Đorđević, Uroš Jeremić

Inventory Loading Problem with a Heterogeneous Vehicle Fleet

Forecasting Intermittent Demand by Using Parametric and Non-parametric Approaches and Inventory Implications Merve Sahin

A Bi-Objective Approach to Locating Facilities in Solid Waste Management Systems Branislava Ratković, Branka Dimitrijević, Vladimir Momčilović

An Approach to Locating Transfer Stations in Waste Management Systems

Milorad Vidović, Branislava Ratković, Nenad Bjelić, Dražen Popović

11:30 - 13:30

Saturday, May 26

Room RD

Chair - Mirjana Čangalović

B2 Combinatorial Optimization & Integer Programming

N-Fold Integer Programming

Shmuel Onn

Some static Roman domination numbers for flower snarks

Zoran Maksimović, Jozef Kratica, Aleksandar Savić, Milena Bogdanović

Application of Combinatorial Mathematics in Cryptography and Steganography

Muzafer Saračević

k-Metric Antidimension of Wheels and Grid Graphs

Mirjana Cangalovic, Vera Kovačević-Vujčić, Jozef Kratica

The Usage of Local Search Operator in Genetic Algorithm: A Study on Vehicle Routing and Assignment Problems Ozan Rıdvan Aksu

A New Linear-Time Algorithm for Computing the Weak Roman Domination Number of a Block Graph

Marija Ivanović, Dragan Urošević

A Single Allocation (p-)Hub Location Problem under Fixed Markup Pricing

Dimitrije D. Čvokić

On the use of k-(Multi)Combination Decision Variables in Engineering Optimization Problems

Miloš Jevtić, Valentina Timčenko, Nikola Zogović, Borislav Đorđević

The Robust Location Routing Problem.

Theocharis Metzidakis, Panagiotis Repoussis, Manolis Kritikos, George Ioannou

Two-sided Estimate of the Maximum Independent Set of Vertices in an Undirected Graph

Damir Gainanov, Nenad Mladenovic, Varvara Rasskazova, Dragan Urosevic

Exact values of the metric dimension of n-dimensional hypercube for up to n=13

Nebojša Nikolić, Mirjana Čangalović, Dušan Džamić

Symmetry Properties of Resolving Sets in Some Families of Graphs

Nada Mladenović, Vukašin Brković

Determining the Set of the Most Critical System Components - Optimization Approach

Petar Pavlović, Dragana Makajic-Nikolic, Mirko Vujosevic

11:00 - 12:30

Sunday, May 27

Room RA

Chair – Milan Stanojević

B11 Mathematical Modeling & Decision Making

Current review on Solution of Delay Differential Equations Using a Modified Power Series Method Abiola Olanrewaju

A Solution Procedure for Interval Transportation Problems via Time-Cost Tradeoff

Gizem Temelcan, Mustafa Sivri, Inci Albayrak

A New Inventory Model for Instantaneous Deterioration and Obsolescent Pharmaceutical Items Under Delay in Payments Najmeh Mostafaei, Abolfazl Mirzazadeh

Models of Analysis of Distribution of Passenger Traffics in Routed Transport Systems

 $A inur\ Akhmediyarova,\ Maksat\ Kalimoldayev,\ Vladimir\ Yavorsky,\ Irbulat\ Utepbergenov$

Conference scheduling: a personalized approach

Dries Goossens, Bart Vangerven, A.M.C. Ficker, Ward Passchyn, Frits Spieksma, Gerhard J. Woeginger

Operational research in private companies: Senior management view Violeta Cvetkoska

Simple Evaluation of Ambient Temperature Effect on Electricity Production of Photovoltaic Power Plants

Saban Pusat, Mustafa Tahir Akkoyunlu, Hasan Hüseyin Erdem

Calculating the Optimal Release Time for Movies on Video-on-demand Websites

Sumanta Basu, Soumyakanti Chakraborty, Megha Sharma

Mathematical and information models of the evacuation task

Aliya Kalizhanova, Ainur Kozbakova, Zhazira Amirgaliyeva

System Maintenance Decision Making Based on Repair Rate Statistics

Nataša Kontrec, Stefan Panić, Milena Petrović

DEAHP Model Based on the Spectral Properties of Pairwise Comparison Matrix

Rade Lazović

11:00 - 12:30

Sunday, May 27

Room RB

Chair - Bogdana Stanojević

B13-2 Multiple Criteria Decision Analysis & Multi-Objective Optimization

Prioritization of Location Alternatives for Electric Vehicle Charging Stations in Istanbul Melike Erdogan, Ali Karaşan, Ihsan Kaya

An entropy based group decision making model integrating ELECTRE and VIKOR under intuitionistic fuzzy environment Sedef Cali, Sebnem Yılmaz Balaman

Analysis of the Cities in Private Hospital Investment: The Case of Turkey *Huseyin Avni Es*

Classifying the Provinces of Turkey in Terms of Healthcare Indicators Via Gra-Tri Huseyin Avni Es, Coskun Hamzacebi, Seniye Umit Oktay Firat

Electre III Approach as a Tool for Migration Problematic

Mladen Stamenković, Mihail Arandarenko, Salvatore Corrente, Maja Jandrić

On fuzzy solutions to a class of fuzzy multi-objective linear optimization problems *Bogdana Stanojevic, Milan Stanojević*

Multi-Criteria Decision Making Methods: Does Approach Matter?

Nenad Medić, Zoran Anisic

11:00 - 12:30

Sunday, May 27

Room RC

Chairs - Zorica Stanimirović, Nenad Mladenović

B8 Locational Analysis

Sports Facility Location Planning with Customers' Preference *Jiun-Yu Yu, Ling-Chieh Kung*

The Multi-period Design of Preventative Healthcare Networks Soheil Davari

Models and Solution Methods for Finite Horizon Reliable Facility Location Problem $Megha\ Sharma,\ Sumanta\ Basu$

B7 Heuristics, Metaheuristics & Nature Inspired Optimization Algorithms

Simulated Annealing For Multi Objective Vehicle Routing Problem with Alternative Links İlknur Tükenmez, Onur Kaya

Vehicle Scheduling Problem in Sugar Beet Transportation: A General Variable Neighborhood Search Approach Ana Anokić, Zorica Stanimirović, Tatjana Davidović, Đorđe Stakić

VNS-based Solution Approaches to the Maximal Covering Location Problem with Customer Preference Ordering Lazar Mrkela, Zorica Stanimirović

Simple Use of Symbolic Regression Via Genetic Programming in the Prediction of Wind Speed Saban Pusat, Mustafa Tahir Akkoyunlu, Ali Volkan Akkaya

11:00 - 12:30

Sunday, May 27

Room RD

Chairs - Gordana Savić, Milan Martić

B1 Banking & Financial Decision Making

The Impact of Presidential Tweeting and Connections on Companies' Stocks: The Case of Donald J. Trump Riste Ichev

Investing in Emerging Markets: Contrasted Mean and Median Models in Egyptian Stock Markets Mai Ibrahim, Mohammed El-Beltagy, Motaz Khorshid

Exploring the Critical Success Factors in the Banking Industry Matilda Lopari

Analysis of Preference Towards Portfolio Selection Criteria Marija Kuzmanović, Dragana Makajić-Nikolić

An Individual Credit Risk Assessment Framework By Interval Type-2 Trapezoidal Fuzzy-Ahp Ertuğrul Ayyıldız, Alev Taşkın Gümüş, Merve Erkan

Variable Neighborhood Search for Cardinality Constrained Portfolio Optimization Andrijana Bačević

B15 O.R. in Agriculture and Forest Management

Forest Policy Evaluation in European Countries Using the Promethee Method Stefanos Tsiaras, Zacharoula Andreopoulou

Effective Pricing Strategies for Organic Agriculture Products Under the Community Supported Agriculture (CSA) Model Nur Ayvaz-Cavdaroglu

Consumers' Attitudes Towards Products of Women's Cooperatives Antonios Tiganis, Mando Dimitriadou, Maria Karaiskou, Antonios Avgeris

Analysis of Rationality in the Food Consumption by the Using Apriori Algorithm Renata Benda-Prokeinova, Martina Hanova, Johana Paluchova

14:30 - 16:30

Sunday, May 27

Room RB

Chair - Milorad Stanojević, Božidar Radenković

B20 Statistics, Stochastics & Simulation

Limit distribution of the maximum of the sum of consecutive terms in random permutations Lenka Glavaš, Jelena Jocković, Pavle Mladenović

An Active Learning-Based Metamodeling Technique for Agent-Based Simulation Models *Mert Edali, Gonenc Yucel*

Simulation Analysis of Quality of Business in IP Networks Vesna Radonjić Đogatović, Marko Đogatović, Milorad Stanojević

Simulation Model for Determining the Location of Runway Exit Stefan Šljukić, Marko Đogatović, Bojana Mirković

A Survey of Industrial Engineering Students' Learning Types Şahika Koyun Yılmaz, Meryem Ezgi Aslan, Vildan Özkır

Statistical Analysis of Criptocurrencies *Galina Panayotova, George Dimitrov*

Numerical Performance of Two Multilevel American Monte Carlo Methods Hitoshi Inui, Katsunori Ano

On bivariate copula-based geometric models with application to reliability *Alessandro Barbiero*

Simulation Analysis of Loading and Unloading Operations in Transport of Dangerous Goods in the Peak Months Milorad Stefanović, Marko Đogatović, Maja Pejica, Milorad Stanojević

14:30 - 16:30

Sunday, May 27

Room RC

Chair - Nenad Mladenović, Katarina Vukadinović

B7 Heuristics, Metaheuristics & Nature Inspired Optimization Algorithms

A genetic algorithm for solving stochastic single machine scheduling problem Feristah Ozcelik, Mehmet Ertem, Tugba Sarac

An Artificial Neural Network coupled with Genetic Algorithm to optimize biosurfactant production parameters Tugba Sarac, Ahmet Sermet Anagun, Feristah Ozcelik, Pinar Aytar Celik, Yagmur Toptas, Busra Sener, Ahmet Cabuk

The impressive circular structures on the seabed as nature-inspired optimization Mehmet Cem Catalbas, Arif Gulten

A Simulation-Based Optimization Approach for Sustainability in Multi-Construction Projects Environment Areej Zaki, Hisham Abdelsalam, Ihab El-Khodary

E-Payment Systems Using Multi-Card Smart Card

Nenad Badovinac, Dejan Simić

A Novel Hybrid Approach for Multiple Sequence Alignment Problem Lamiche Chaabane

Heuristics for the bipartite unconstrained 0-1 quadratic programming problem Zhazira Amirgaliyeva, Nenad Mladenović, Raca Todosijević, Dragan Urošević

The New Supply Chain Models Under Evidence Theory by a Meta-Heuristic Algorithm for Pharmaceutical Items Sahar Masoudi, A. Mirzazadeh

A Metaheuristic and Error Detection Approaches for Multiproduct EOQ-Based Inventory Control Problem Slobodan Antić, Lena Đorđević

14:30 - 16:30

Sunday, May 27

Room RD

Chair – Mirko Vujošević

Operations Management B16

Lean Six Sigma for Local Government: Overview of Online Publications Engelbert Zefaj

Simheuristic Applications on Operations Management Related Problems

Nurcan Deniz

Behavioral Effects on Newsvendor Problem's Solution

Nurcan Deniz

A Brief Literature Analysis about Usage of the Fuzzy Sets and Markov Chain on Maintenance Processes Melike Erdogan, Ihsan Kaya

Supplier Selection Problem in the Behavioral Operations Management Context

Nurcan Deniz

KPI Based Model for Improvement of Procurement Process Management

Teodora Rajković, Danica Lečić-Cvetković, Lena Đorđević, Zorana Mijalkov

A Mathematical Modeling Approach To Multiple Bin Packing Problem: An Application In Household Appliances Sector Ertuğrul Ayyıldız, Alev Taşkın Gümüş, Anıl Şen

An EOQ-based model for non-instantaneous deteriorating items with imperfect quality, delay in payments and time value of money Mahvash Mahmoudinezhad, A. Mirzazadeh, Maryam Ghoreishi

Quality Losses as the Key Argument in the Public Procurement in Healthcare

Ivana Mijatović, Rade Lazović

17:00 - 19:00

Sunday, May 27

Chair - Marija Kuzmanović

B6 Game Theory

Reciprocity in Groups: An Empirical Analysis in Greece

Antonios Avgeris, Panagiota Sergaki, Achilleas Kontogiorgos, Antonios Tiganis

Cooperative games in fixed lenght arrays and the assignment problem

Josué Manzanarez Cárdenas, William Olvera – Lopez

Room RB

Asymmetric Bargaining Power and Multi-Layered Coalition Structure *Haruo Imai*

Modelling Problems Dynamics by Differential Games

Saltanat Amirgaliyeva, Valentin Ostapenko

B10 Marketing & e-Business

Social Media Marketing: An Empirical Analysis

Mehmet Cabir Akkoyunlu, Coşkun Özkan

The Effects of Social Media on Buying Behaviour

Mehmet Cabir Akkoyunlu, Coşkun Özkan

Advertisement Content Type at Digital Media Channels: A Case Study

Mehmet Cabir Akkoyunlu, Coşkun Özkan

Detection of Click Spamming in Mobile Advertising

Safiye Seyma Kaya, Burak Cavdaroglu, Kadir Soner Sensoy

17:00 - 19:00

Sunday, May 27

Room RC

Chair - Panos Pardalos

B4 Data Sciences & Big Data

Educating Industrial Engineering Students to Meet Market Needs: Which Elective Courses to Open?

Meryem Ezgi Aslan, Semih Önüt, Şahika Koyun Yılmaz

Market Basket Analysis for Job Requirements

Meryem Ezgi Aslan, Semih Onut, Şahika Koyun Yılmaz

Quality measures of quantified linguistic summaries aggregated by the uninorm connective for dimensional data structures Miroslav Hudec

The Effects of Climate Change on Bird Populations

Esra Sabancı, Meryem Ezgi Aslan, Şahika Koyun Yılmaz

Research and development of models for modular data processing systems of various classes and purposes

Gulnaz Nabiyeva, Aliya Kalizhanova, Sultan Akhmetov, Lyazzat Balgabayeva, Timur Kartbayev, Aliya Doszhanova

Dichotomy Algorithms in the Multi-Class Problem of Pattern Recognition

Damir Gainanov, Nenad Mladenović, Dmitriy Berenov

A recommender system with IBA similarity measure

Nevena Vranić, Pavle Milošević, Ana Poledica, Bratislav Petrović

Improving decision making in ski resorts by analysing ski lift transportation

Boris Delibašić, Sandro Radovanović, Miloš Jovanović, Milija Suknović

B21 Structural Optimization

One approach for the group synthesis of recognition and classification tasks

Yedilkhan Amirgaliyev, Lyaillya Cherikbayeva, Konstantin Latuta, Vladimir Berikov, Maksat Kalimoldayev, Bekturgan Kalybek Uuly

17:00 - 19:00

Sunday, May 27

Room RD

Chair – Milan Martić

B3-1 Data Envelopment Analysis & Performance Measurement

A profile-based approach for ranking units using DEA cross-efficiency models *Amar Oukil*

ArCo and New DEA-Like ArCo Technology Indices: How Different Methodologies Affect the Final Countries' Ranking? *Jovana Rakicević, Gordana Savić*

A DEA Window Analysis for Assessing the Technical Efficiency of Agricultural Production in Northern Greece *Anna Kalioropoulou, Basil Manos*

Measuring the Volume of Transport Using the BoD-CIDI Model: The Case of Europe

Milica Maričić, Marina Dobrota, Milica Bulajić, Veljko Jeremić

Intuitionistic fuzzy DEA/AR and its application to flexible manufacturing systems $Sanjeet\ Singh$

The Efficiency Assessment of 'Smart' Performances and Quality of Life in CEE Cities

Jelena Stanković, Ivana Marjanović

Analyzing the Efficiency of Travel & Tourism in the European Union

Petra Barišić, Violeta Cvetkoska

Metrics, Indicators and Analytics to Support Government Excellence Programme: The Case of Dubai Government Website Excellence Model (WEM)

Hazza Al Nuaimi, Ozren Despić, Ali Emrouznejad

Technology-Based Critical Success Factors of Secondary Education Efficiency: A Cross-Country Analysis

Nemanja Milanović, Miloš Milosavljević, Gordana Savić

Assessment of Europeans NRENs Service Efficiency

Mara Bukvić, Gordana Savić

Teachers' Efficiency Measuring: An Application of DEA

Jovana Vukosavljević, Milena Popović, Milan Martić, Marina Popović

09:30 - 10:30

Monday, May 28

Room M

Chairs - Dragana Makajić-Nikolić, Mirjana Čangalović

B19 Risk Analysis & Management

A Model For Assessment of Risks with Trapezoidal Interval Type-2 Fuzzy Sets

Dajana Živković, Aleksandar Aleksić, Danijela Tadić, Aleksandar Đorđević

Competition, Risk and Learning in Electricity Markets

Danial Esmaeili Aliabadi, Murat Kaya, Güvenç Şahin

Terrorism Risks Assessment of Tourism Destinations

Dragana Makajić-Nikolić, Marija Kuzmanović, Biljana Panić

Review of Forecasting and P2P Models in Electricity Trading

Minja Marinović

B18 Project Management & Scheduling

Energy Conscious Robot Scheduling in a Two-machine Cell

Sinan Gürel, Hakan Gültekin, Vahid Eghbal Akhlaghi

Maturity measurement system improvement in IT project management

Dragan Bjelica, Marko Mihić, Dejan Petrović

B14 Network Optimization & Telecommunications

Bounding cliques in a network by blocking edges Foad Mahdavi Pajouh

11:00 - 12:30

Monday, May 28

Room M

Chairs - Milan Stanojević, Milan Martić

B17 Optimization Software

Unconstrained Numerical Optimization Application

Marko Miladinović, Predrag Živadinović

Benefits of Using Vagrant as a Test Environment

Zoran Ereiz, Miljan Vujadinović, Adel Handžić, Zanin Vejzović

The Optimisation of Appropriate Flashing Pressure in Flash Geothermal Power Plants

Mustafa Tahir Akkoyunlu, Şaban Pusat, Mehmet Cabir Akkoyunlu, Mustafa Cenk Sarman

On Possible Cryptographic Optimization for Secure Mobile Application

Milan Marković, Goran Đorđević

Mathematica Blocks For Optimal Route Design

Kadir Berkhan Akalin, Hakan Ozbasaran

B3-2 Data Envelopment Analysis & Performance Measurement

Residential Attractiveness of Cities from the Perspective of the Efficiency, Residents' Perception and Preferences: The Case of Serbia

Marija Kuzmanović, Gordana Savić, Kristina Pajić

Interdomain Quality of Service Negotiation Using DEA Analysis and Petri Nets

Teodora Acimović, Gordana Savić, Dragana Makajić-Nikolić