

Monday 21st September 2020

10:00 – 10:30 h **CONFERENCE OPENING CEREMONY**

11:00 – 12:00 h **PARALLEL SESSIONS**

A1 - OR Applications in Civil Engineering I part

Chair: prof. dr. Goran Ćirović

BIM IN CIVIL ENGINEERING

Ljubo Markovic, Ljiljana Milic Markovic

EFFICIENCY OF ONLINE PREPARATORY COURSES FOR ENROLLMENT IN TECHNICAL FACULTIES ON THE EXAMPLE OF THE FACULTY OF ARCHITECTURE, CIVILE ENGINEERING AND GEODESY IN BANJA LUKA

Sandra Kosić-Jeremić, Maja Ilić, Snježana Maksimović

MOGUĆNOST IZRADE GEODETSKIH PODLOGA SAOBRAĆAJNICA PRIMENOM „LOW COST“ FOTOGRAMETRIJSKIH REŠENJA

Slavoljub Tomić, Slobodan Pandžić

A2 - Statistical Models & Business Analytics

Chair: prof. dr. Zorica Mladenović & prof. dr. Mirko Vujošević

INTERPERSONAL RELATIONSHIPS WITH STUDY GROUP PEERS AS A PREDICTOR OF BEHAVIOUR AND PARTICIPATION IN CLASS

Milica Maričić, Veljko Jeremić, Marina Dobrota

POTENCIJALNA PRISTRASNOST PRI OCENJIVANJU PARAMETARA – TAMNA STRANA NEDOSTAJUĆIH PODATAKA

Vladimir Vasić

LINGUISTICALLY SUMMARIZING AND VISUALIZING INFORMATION FROM DATA WAREHOUSES

Miroslav Hudec, Patrik Poláček

A3 - Soft Computing & Simulation and Stochastic Models

Chair: prof. dr. Dragan Radojević & prof. dr. Milorad Stanojević

APPLICATION OF ARTIFICIAL NEURAL NETWORKS FOR STOCK PRICE TREND PREDICTION USING FUNDAMENTAL AND TECHNICAL ANALYSIS

Miloš Stojanović, Aleksandar Rakićević, Pavle Milošević

PREPOZNAVANJE NADARENIH UČENIKA PRIMENOM FAZI SISTEMA ZAKLJUČIVANJA

Jelena Pejčić, Milan Cicvaric, Pavle Milosevic, Aleksandar Rakicevic, Ana Poledica

DEVELOPMENT AND VALIDATION OF E-BUS SIMULATION MODEL

Marko Stokić, Marko Đogatović

14:00 – 16:00 h **PARALLEL SESSIONS**

B1 - OR Applications in Civil Engineering II part

Chair: prof. dr. Goran Ćirović

PREFABRICATION IN THE CONTEXT OF ADVANCED CONSTRUCTION TECHNOLOGIES

Dragana Veselinović, Jasmina Dražić, Igor Peško, Vladimir Mučenski

PRIMENA GENETSKIH ALGORITAMA PRI OPTIMIZACIJI GREDNIH NOSAČA OD BETONA ULTRA VISOKIH ČVRSTOĆA

Dragan Nikolic, Goran Ćirović, Snežana Mitrović, Olivera Jeremić

THE APPLICATION OF THE AHP METHOD FOR CRANE SELECTION IN LARGE INVESTMENT PROJECTS

Nevena Simić, Nataša Prašćević, Marija Ivanović

THE DIGITAL TWINS TECHNOLOGY AND APPLICATION OF THAT TECHNOLOGY IN DIFFERENT TECHNICAL DISCIPLINES WITH THE ACCENT ON CONSTRUCTION INDUSTRY

Predrag Jovanovic

UTICAJ TERMOIZOLACIONIH MATERIJALA NA EMISIJU GASOVA SA EFEKTOM STAKLENE BAŠTE

Marina Nikolić Topalović, Goran Ćirović, Katarina Krstić

VREDNOVANJE FASADNIH OBLOGA U FAZI PROJEKTOVANJA SA ASPEKTA UTICAJA NA ŽIVOTNU SREDINU

Marina Nikolić Topalović, Goran Ćirović

B2 - Game Theory & Graphs and networks

Chair: prof. dr. Marija Kuzmanović & prof. dr. Mirjana Čangalović

DUOPOLY SPATIAL MODEL WITH A LIMITED QUANTITY OF OFFERED PRODUCTS

Zuzana Čičková, Patrícia Holzerová

EVOLUCIONA DINAMIKA PONAŠANJA STANOVNIŠTVA TOKOM PANDEMIJE COVID-19

Marija Kuzmanovic

CORONAVIRUSES AND CORONA OF GRAPHS

Dragoš Cvetković

MIXED METRIC DIMENSION OF COMPLETE SPLIT GRAPHS

Milica Milivojević Danas, Zoran Maksimović, Jozef Kratica, Aleksandar Savić

B3 - Logistics and Supply Chain Management I part

Chair: prof. dr. Milorad Vidović

A RIGOROUS MATHEMATICAL MODEL OF STOCHASTIC INVENTORY POLICY WITH BACKLOG SALES AND GENERAL DEMAND DISTRIBUTIONS

Md Abu Helal, Alain Bensoussan, Viswanath Ramakrishna, Suresh Sethi

AN APPROACH FOR DETERMINING TIME ACCESS RESTRICTION MEASURES IN CITY LOGISTICS

Snežana Tadić, Milovan Kovač, Mladen Krstić

COMPARISON OF PYTHON AND GAMS OPTIMIZATION SOFTWARE TOOLS FOR CAPACITATED VEHICLE ROUTING PROBLEM

Ivan Brezina, Juraj Pekár, Marian Reiff

FACILITY LOCATION USING QUADRATIC ASSIGNMENT PROBLEM

Badri Toppur, S. Bharadwaj

EFFICIENCY ANALYSIS OF WASTE RECEPTION FACILITIES FOR BILGE WATER COLLECTION ON THE DANUBE RIVER

Katarina Vukadinovic, Branka Dimitrijevic, Ivana Kunc, Milos Nikolic, Branislava Ratkovic, Nenad Bjelic

QMIP AND HEURISTIC APPROACH IN SOLVING AISLE CONGESTION PROBLEM BY REALLOCATING GOODS WITHIN AN ORDER PICKING ZONE

Nenad Bjelic, Milorad Vidovic, Branislava Ratkovic

16:30 – 17:30 h **PLENARY SESSION, chair: prof. dr. Milorad Vidović**

P2 - prof. dr. Suresh P. Sethi: *Hierarchical and Mixed Leadership Games for Dynamic Supply Chains: Applications to Cost Learning and Co-op Advertising*

Tuesday 22nd September 2020

10:00 – 12:00 h PLENARY SESSIONS, chair: prof. dr. Milorad Vidović

- P3 - prof. dr. José Fernando Oliveira: *Waste minimization: the contribution of Cutting and Packing problems for a more competitive and environmentally friendly industry*
- P4 - dr. Malick M. Ndiaye, associate professor: *Flying Drones for Delivery*

13:00 – 14:30 h PARALLEL SESSIONS

C1 - Traffic, Transportation and Communication I part

Chair: prof. dr. Feđa Netjasov

ONLINE VIDEO STREAMING SERVICE ADOPTION BY YOUNGER GENERATION IN SERBIA
Slobodan Mitrović, Svetlana Čičević, Valentina Radojičić, Goran Marković

A SECURITY-DRIVEN APPROACH TO THE AUCTION-BASED CLOUD SERVICE PRICING
Branka Mikavica, Aleksandra Kostic-Ljubisavljevic, Drazen Popovic

AN INVESTIGATION INTO THE CLOSER RUNNING OF AUTONOMOUS TRAINS
James Pickering, Jack Whitaker, Bradley Glazer, Keith Burnham

METODOLOŠKI OKVIR ZA ODREĐIVANJE INDEKSA BEZBEDNOSTI AVIO-KOMPANIJA
Slavica Dozic, Branka Dimitrijević, Milica Kalic

MODELI ZA PROGNOZU BROJA PUTNIKA NA AERODROMU TIVAT
Milica Kalic, Slavica Dozic, Danica Babic

C2 - Heuristics & Mathematical Programming

Chair: prof. dr. Nenad Mladenović & prof. dr. Vera Vujčić

BEE COLONY OPTIMIZATION FOR DECISION MAKING PROBLEMS
Tatjana Davidovic

EVOLUTIONARY ALGORITHM APPROACH TO BI-OBJECTIVE MAXIMAL COVERING LOCATION PROBLEM WITH CUSTOMER PREFERENCES
Zorica Stanimirovic, Lazar Mrkela

UVODNA RAZMATRANJA O EKSPERIMENTALNOJ ANALIZI STOHAŠTIČKIH OPTIMIZACIONIH ALGORITAMA
Tatjana Jaksic Kruger, Tatjana Davidovic

VARIABLE NEIGHBORHOOD SEARCH METHOD FOR THE P-NEXT CENTER PROBLEM
Dalibor Ristić, Dragan Urošević, Raca Todosijević, Nenad Mladenović

A CONTINUOUS PROGRAMMING PROBLEM
Miruna Beldiman, Andrei Halanay

C3 - Environmental Management and Natural Resources Management & Management

Chair: prof. dr. Nataša Petrović & prof. dr. Slavica Petrović

OVERVIEW OF CIRCULAR ECONOMY INDICATORS OF DEVELOPED COUNTRIES
Tijana Milanovic, Natasa Petrovic, Aleksandar Jovovic, Milan Martic

PANDEMIJA KORONAVIRUSA COVID-19 I ZAGAĐENJE ŽIVOTNE SREDINE KAO IZAZOV ODRŽIVOSTI
Jelena Andreja Radaković, Kristina Stanojević, Nataša Petrović

PERCEPCIJA ŽENA O KLIMATSKIM PROMENAMA: STUDIJA SLUČAJA
Nataša Petrović, Kristina Stanojević, Jelena Andreja Radaković, Marko Čirović

UTICAJ IZBEGAVANJA NEIZVESNOSTI NA PRIHVATANJE STRANIH BRENDOVA- MEDIJATORSKI EFEKAT REFERENTNIH GRUPA
Stefan Zdravković, Jelena Peković, Aleksandar Jovanović

15:00 – 16:30 h PARALLEL SESSIONS

D1 - Information Systems and Technologies & OR Software

Chair: prof. dr. Dejan Simić & prof. dr. Tatjana Davidović

ARHITEKTURA POSLOVNE INTELIGENCIJE I NJEN RAZVOJ
Teodora Ivanović

IMPLEMENTACIJA SOFTVERSKOG SISTEMA ZA GENERISANJE CROSS-PLATFORM KORISNIČKOG INTERFEJSA
Dimitrije Jevtić, Prof. Dr Saša Lazarević, Tatjana Stojanović

PRIMENA VIZUELNE KRIPTOGRAFIJE U PROCESU DELJENJA INFORMACIJA O VOZILIMA PARKIRANIM U KRUGU KOMPANIJE
Hana Stefanović, Radosav Veselinović, Goran Bjelobaba, Ana Savić

MATHEMATICAL OPTIMIZATION IN LUA PROGRAMMING LANGUAGE ENVIRONMENT
Milan Stanojević, Bogdana Stanojevic

MATHEURISTICS BASED ON VARIABLE NEIGHBORHOOD SEARCH
Tatjana Davidovic, Luka Matijević

D2 - Data Science

Chair: prof. dr. Milija Suknović

IZBOR AKCIJA U FUDBALU NA OSNOVU PODATAKA
Sandro Radovanović, Milan Radojičić, Boris Delibašić, Aleksandar Đoković

PREDIKCIJA ČASOVNOG PROTOKA VOZILA KORIŠĆENJEM METODA BIG DATA ANALITIKE
Ana Uzelac, Stefan Zdravković, Sladjana Jankovic, Dušan Mladenovic, Ivana Andrijanić

PREDIKCIJA OBIMA SAOBRAĆAJA KORIŠĆENJEM REGRESIONIH STABALA ODLUČIVANJA
Slađana Janković, Stefan Zdravković, Dušan Mladenović, Snežana Mladenović, Ana Uzelac

THE MAXIMAL CLUSTER RADIUS BASED METHOD FOR SUBOPTIMAL CLUSTERING OF MULTIDIMENSIONAL SAMPLES AND SELECTION OF REFERENCE REPRESENTATIVES OF IDENTIFIED CLUSTERS
Slobodan Ružić, Bojana Opačić, Petar Zečević, Aleksandra Ružić

TRAFFIC SIGN RECOGNITION USING CONVOLUTIONAL NEURAL NETWORK
Sanja Mosaic, Ivana Dragovic, Bratislav Petrovic

D3 - OR Applications in Military Defence

Chair: prof. dr. Dalibor Petrović

DATA-DRIVEN ACCIDENT CAUSATION MODELING FOR MILITARY WAREHOUSES
Nebojsa Nikolic

MODEL OF SELECTION OF THE BEST SCIENTIFIC RESEARCH PROJECT IN THE MINISTRY OF DEFENSE AND THE SERBIAN ARMY
Srdjan Dimic, Milan Kankaras, Vlada Mitic

MOGUĆNOST PRIMENE GEOGRAFSKIH INFORMACIONIH SISTEMA I ANALITIČKI HIJERARHIJSKOG PROCESA PRI IZBORU LOKACIJE KOMANDNOG MESTA U VOJNIM OPERACIJAMA
Dejan Nikolić, Vlada Mitić, Milan Kovačević

VREDNOVANJE KRITERIJUMA ZA IZBOR SISTEMA AUTOMATIZACIJE U VAZDUŠNOM OSMATRANJU, JAVLJANJU I NAVOĐENJU (VOJIN) PRIMENOM AHP METODE
Đorđe Đukić, Aleksandar Petrović

Wednesday 23rd September 2020

10:00 – 12:00 h PARALLEL SESSIONS

E1 - Logistics and Supply Chain Management II part

Chair: prof. dr. Branka Dimitrijević

A PRELIMINARY REVIEW OF THE LITERATURE INVESTIGATING SERIOUS GAMES IN LOGISTICS

Miloš Spasić, Marinko Maslarić, Svetlana Nikoličić, Dejan Mirčetić, Gabriel Fedorko

A SIMULATION-OPTIMIZATION APPROACH FOR ASSESSING A 3PL'S LAST-MILE DELIVERY DISRUPTION FROM A NEW CLIENT ACQUISITION

Miloš Ružić, Dražen Popović, Milorad Vidović, Dušan Bešić

EVALUATION AND SELECTION OF KPI IN PROCUREMENT LOGISTICS USING SWARA-QFD APPROACH

Vukašin Pajić, Milan Andrejić, Milorad Kilbarda

FAZI VIŠEKRITERIJUMSKI MODEL ZA IZBOR BLOKČEJN TEHNOLOGIJE – PRIMENA U LANCIMA SNADBEVANJA

Jovko Jaćimović, Branka Dimitrijević, Žarko Iličić, Mihailo Ristić, Vladimir Jovanović, Ivana Vladislavljević, Dejan Jovanović

OPTIMIZACIJA NIVOVA PORUČIVANJA U UPRAVLJANJU ZALIHAMA PRIMENOM ARENA SIMULACIONOG MODELA

Dražen Popović, Milica Mitrović, Milorad Vidović, Gordana Radivojević

EFFICIENCY ANALYSIS OF THE EUROPEAN INLAND TRIMODAL TERMINALS

Mladen Krstić, Snežana Tadić, Slobodan Zecević

E2 - Finance and Banking & Electronic business

Chair: prof. dr. Irena Janković & prof. dr. Zorica Bogdanović

CONTINGENT CONVERTIBLE (COCO) BONDS

Irena Janković

FINANSIJSKO IZVEŠTAVANJE BANAKA: PROBLEMI U MERENJU FER VREDNOSTI PO MODELIMA

Marija Pantelić, Milutin Živanović

ШТА ПОКАЗУЈУ ИНДЕКСИ КОНЦЕНТРАЦИЈЕ: ПРИМЕР БАНКОВНОГ СЕКТОРА СРБИЈЕ

Ражко Буквић

ANALIZA SWOT MATRICE ELEKTRONSKE TRGOVINE U SRBIJI PRE I U TOKU PANDEMIJE COVID 19

Miloš Đurković, Svetlana Zeljić Drakulić

ELEKTRONSKA PLAĆANJA KAO SREDSTVO PRANJA NOVCA

Jelena Peković, Stefan Zdravković

POKAZATELJI OD ZNAČAJA ZA MERENJE EFIKASNOSTI ELEKTRONSKE MALOPRODAJE

Jelena Končar, Sonja Vucenović, Radenko Marić, Goran Vukmirović

E3 - Traffic, Transportation and Communication II part

Chair: prof. dr. Feđa Netjasov

KOMPARATIVNA ANALIZA METAHEURISTIKA ZA REŠAVANJE PROBLEMA LOCIRANJA SENZORA NA TRANSPORTNOJ MREŽI

Milica Šelmić, Ivana Jovanović, Miloš Nikolić

PERFORMANCE OF RAILWAY SYSTEM AND ITS DETERMINANTS: A PRINCIPAL COMPONENT ANALYSIS APPROACH

Miroslav Prokić, Katarina Halaj, Mira Paskota

PRIMENA LOGISTIČKE REGRESIJE PRI UTVRĐIVANJU PRIPADNOSTI VOZILA PLOTUNU ZA NEZASIĆENA STANJA

Jelena Kajalić, Nikola Čelar, Stamenka Stanković, Anica Kocić

RASPOREĐIVANJE LUČKIH RADNIKA PRIMENOM GENETSKOG ALGORITMA

Ivana Vukićević Biševac, Katarina Vukadinović

THE OPERATIONAL EFFICIENCY ANALYSIS OF AIRPORTS WITH TWO-RUNWAY SYSTEM

Doroteja Timotić, Bojana Mirković, Gordana Savić



TRAFFIC SIGNS CLASSIFICATION USING CONVOLUTIONAL NEURAL NETWORKS
Sreten Jevremović, Milica Šelmić, Ana Trpković

12:30 – 14:00 h PARALLEL SESSIONS

F1 - Research and Development

Chair: prof. dr. Đuro Kutlača

INDICATORS OF RESPONSIBLE RESEARCH AND INNOVATION – POSSIBILITIES FOR APPLICATION IN SERBIA
Nikola Vasilic, Đuro Kutlača, Sanja Popović-Pantić

METRIKA INTEGRISANOSTI NAUKE I PRIVREDE
Lazar Živković, Đuro Kutlača

OPEN SCIENCE POLICY IN SERBIA AS AN ASPECT OF RESPONSIBLE RESEARCH AND INNOVATION
Dijana Štrbac, Djuro Kutlaca, Dusica Semencenko

F2 - Multicriteria Analysis and Optimization & Performance Analysis

Chair: prof. dr. Milan Stanojević & prof. dr. Gordana Savić

A HYBRID MCDM FRAMEWORK FOR SOLVING THE PROJECT MANAGEMENT SOFTWARE SELECTION PROBLEM
Sanja Puzović, Jasmina Vesić Vasović, Vladan Paunović, Zoran Nešić

EVALUATION AND RANKING OF COUNTRIES ACCORDING TO THE EFFICIENCY OF PUBLISHING SCIENTIFIC PAPERS
Ana Krstić, Predrag Mimović

PROMETHEE R-REJTING UMEŠTO RANGIRANJA - PRIMER SLUČAJA IZBORA SISTEMA ZA NAPLATU PUTARINE -
Draženko Glavić, Marina Milenković, Miloš Mladenović

OCENA RELATIVNE EFIKASNOSTI ZDRAVSTVENIH SISTEMA EVROPSKIH DRŽAVA U BORBI PROTIV PANDEMIJE
Minja Marinovic, Milena Popović, Bisera Andrić Gušavac, Gordana Savić

F3 - Geoinformation systems

Chair: dr. Siniša Drobňak, assistant professor

GEOCODING TRAFFIC ACCIDENTS BY PROGRAMMING LANGUAGE R
Nemanja Deretic, Pavle Gladovic, Dragan Stanimirovic

MAKING A DIGITAL SURFACE MODEL BASED ON IMAGES, COLLECTED FROM UNMANNED AERIAL VEHICLES
Miodrag Regodić, Ljubomir Gigović, Miroslav Vujasinović, Goran Klječanin

OCENA KVALITETA DIGITALNIH TOPOGRAFSKIH KARATA U OKRUŽENJU PROSTORNE BAZE PODATAKA
Siniša Drobňak, Dragoljub Sekulović, Marko Stojanović

OTKRIVANJE I PRAĆENJE STANJA AMBROZIJE NA OSNOVU SNIMAKA
Nenad Galjak, Miroslav Vujasinovic, Miodrag Regodic, Borislava Stojnic

PRIMENA DIGITALNIH MODELA TERENA U POSTUPKU AUTOMATSKE KLASIFIKACIJE ZEMLJIŠNIH OBLIKA U GIS
OKRUŽENJU

Stanislava Bosiočić, Nebojsa Bosiočić, Dušan Petković, Miodrag Kostić

14:15 – 14:30 h CONFERENCE CLOSING CEREMONY