



Datum: 24. 2. 2016

Zadeva: **Poročilo SDI-SOR o SOR'15**

Sekcija za operacijske raziskave Slovenskega društva INFORMATIKA (Litostrojska cesta 54, SI 1000 Ljubljana, ki ji predseduje prof. dr. Lidija Zadnik Stirn, je v dneh od 23. do 25. septembra 2015 organizirala v hotelu Astoria na Bledu 13. mednarodni simpozij iz operacijskih raziskav (The 13th International Symposium on Operational Research – SOR'15).

Lokalni soorganizator simpozija je bila Fakulteta za organizacijske študije, Univerze v Mariboru (UM, FOV), Kidričeva cesta 55a, Kranj.

SOR'15 je bil strokovno brezhibno organiziran po zaslugi **Organizacijskega odbora SOR'15:**

- S. Drobne, UL, Fakulteta za gradbeništvo in geodezijo, Ljubljana, Slovenija (predsednik)
- P. Gorjanc, UM, Fakulteta za organizacijske vede, Kranj, Slovenija (podpredsednica)
- M. Bogataj, MEDIFAS, Šempeter pri Gorici, Slovenija
- M. Kljajič Borštnar, UM, Fakulteta za organizacijske vede, Kranj, Slovenija
- J. Povh, Fakulteta za informacijske študije, Novo mesto, Slovenija
- L. Zadnik Stirn, UL, Biotehniška fakulteta, Ljubljana, Slovenija
- J. Žerovnik, UL, Fakulteta za strojništvo, Ljubljana, Slovenija

Za kakovostno raven vabljenih prispevkov in recenziranih referatov nosi odgovornost **Programski odbor SOR'15:**

- L. Zadnik Stirn, UL, Biotehniška fakulteta, Ljubljana, Slovenija (predsednica)
- M. Kljajič Borštnar, UM, Fakulteta za organizacijske vede, Kranj, Slovenija (podpredsednica)
- J. Žerovnik, UL, Fakulteta za strojništvo, Ljubljana, Slovenija (podpredsednik)
- Z. Babić, University of Split, Faculty of Economics, Split, Hrvaška
- M. Bastič, UM, Ekonomsko-poslovna fakulteta, Maribor, Slovenija
- M. Bogataj, MEDIFAS, Šempeter pri Gorici, Slovenija
- M. Bohanec, Inštitut Jožef Stefan, Ljubljana, Slovenija
- K. Cechlarova, P. J. Šafarik University, Faculty of Science, Košice, Slovaška
- T. Cséndes, University of Szeged, Department of Applied Informatics, Szeged, Madžarska
- S. Drobne, UL, Fakulteta za gradbeništvo in geodezijo, Ljubljana, Slovenija
- K. Dumičić, University of Zagreb, Faculty of Economics and Business, Zagreb, Hrvaška
- M. Ferjan, UM, Fakulteta za organizacijske vede, Kranj, Slovenija
- W. Gutjahr, University of Vienna, Department of Statistics and Decision Support Systems, Vienna, Avstrija
- J. Jablonsky, University of Economics, Faculty of Informatics and Statistics, Prague, Češka
- D. Jukić, University of Osijek, Department of Mathematics, Osijek, Hrvaška
- S. Klavžar, UL, Fakulteta za matematiko in fiziko, Ljubljana, Slovenija
- D. Kofjač, UM, Fakulteta za organizacijske vede, Kranj, Slovenija

- J. Kušar, UL, Fakulteta za strojništvo, Ljubljana, Slovenija
- A. Lisec, UL, Fakulteta za gradbeništvo in geodezijo, Ljubljana, Slovenija
- Z. Lukač, University of Zagreb, Faculty of Economics and Business, Zagreb, Hrvatska
- L. Neralić, Faculty of Economics, Zagreb, Hrvatska
- M. Pejić Bach, University of Zagreb, Faculty of Economics and Business, Zagreb, Hrvatska
- M. Petitjean, University Paris 7, INSERM, Paris, Francija
- U. Pferschy, University of Graz, Department of Statistics and Operations Research, Graz, Austria
- J. Povh, Fakulteta za informacijske študije, Novo mesto, Slovenija
- V. Rajkovič, UM, Fakulteta za organizacijske vede, Kranj, Slovenija
- M. S. Rauner, University of Vienna, Department of Innovation and Technology Management, Vienna, Austria
- R. Sotirov, Department of Econometrics and Operations Research, Tilburg University, Nizozemska
- K. Šorić, University of Zagreb, Faculty of Economics & Business, Zagreb, Hrvatska
- D. Škulj, UL, Fakulteta za družbene vede, Ljubljana, Slovenija
- P. Šparl, UM, Fakulteta za organizacijske vede, Kranj, Slovenija
- T. Trzaskalik, University of Economics, Department of Operational Research Katowice, Poljska
- G. W. Weber, Middle East Technical University, Institute of Applied Mathematics, Ankara, Turčija
- M. Zekić Sušac, University of Osijek, Faculty of Economics, Hrvatska

Simpozija se je udeležilo 119 strokovnjakov s področja operacijskih raziskav z univerz, inštitutov, podjetij in javne uprave in 4 spremjevalne osebe. Izmed njih je bilo 90 tujih (iz 20 držav) in 29 domačih.

Udeleženci so predstavili 6 vabljenih predavanja in 93 recenziranih referatov, ki jih je napisalo 191 avtorjev in soavtorjev. Posebej je treba omeniti 5 vabljenih predavateljev iz tujine in 1 iz Slovenije in častne govornike na otvoritveni slovesnosti, med katerimi gre posebno mesto predsednikom oziroma ***predstavnikom društev za operacijske raziskave naslednjih držav.***

Častni govorniki so bili:

- prof. dr. Lidija Zadnik Stirn, predsednica Sekcije za operacijske raziskave, Slovensko društvo Informatika;
- prof. dr. Marjan Ferjan, dekan Fakultete za organizacijske vede, Univerza v Mariboru;
- mag. Urban Krajcar, generalni direktor Direktorata za znanost, Ministrstvo za izobraževanje, znanost in šport;
- prof. dr. József Györkös, direktor Javne agencije za raziskovalno dejavnost Republike Slovenije;
- dr. Sarah Fores in prof. dr Gerhard Wilhelm Weber, predstavnika EURO (The Association of European Operational Research Societies);
- g. Niko Schlamberger, predsednik Slovenskega društva Informatika;
- prof. dr. Marijana Zekić-Sušac, predsednica Hrvatskega društva za operacijske raziskave.

Vabljeni predavatelji (plenarna predavanja) so bili:

- prof. dr. Aharon Ben-Tal, William Davidson Faculty of Industrial Engineering and Management, Technion - Israel Institute of Technology, Haifa, Israel, naslov predavanja: Robust Solutions of Uncertain Optimization Problems under Ambiguous Stochastic Data;
- prof. dr. Sergio Cabello, Univerza v Ljubljani, Fakulteta za matematiko in fiziko, Ljubljana, Slovenija, naslov predavanja: Two Applications of Geometric Optimization;
- dr. Stefano Cozzini, Centro DEMOCRITOS, Istituto Officina dei Materiali CNR-IOM, Trst, Italija, naslov predavanja: HPC as a Key-Enabling Technology;
- prof. dr. Nebojša Gvozdenović, University of Novi Sad, Faculty of Economics, Subotica, Srbija, naslov predavanja: OR Techniques in Real World Vehicle Routing;
- prof. dr. Gerhard Wilhelm Weber, Middle East Technical University, Institute of Applied Mathematics, Ankara, Turčija, naslov predavanja: A New Contribution to Operational Research: Optimal Control of Stochastic Hybrid Systems with Jumps - with Applications in Finance, Economics, Engineering and Biosciences;
- prof. dr. Ou Tang, Linköping University, Department of Management and Engineering, Linköping, Švedska, naslov predavanja: Remanufacturing and Core Acquisition.

Na SOR'15 smo organizirali **štiri posebne sekcije**; in sicer:

- Qualitative MCDM – so-organizatorji so bili Inštitut Jožef Štefan (Marko Bohanec), UM, Fakulteta za organizacijske vede (Vladislav Rajkovič in Mirjana Kljajić Borštnar) in SDI-SOR;
- Inventory Research – so-organizatorja sta bila Mediteranski inštitut za napredne študije (MEDIFAS, Marija Bogataj) in SDI-SOR;
- Metaheuristic Optimization – so-organizatorja sta bila Inštitut Jožef Štefan (Bogdan Filipič in Jurij Šilc) in SDI-SOR;
- Big Data – so-organizatorja sta bila Fakulteta za informacijske študije iz Novega mesta (Janez Povh) in SDI-SOR.

Proceedings of the 13th International Symposium on Operational Research, ki so ga uredil prof. dr. Lidija Zadnik Stirn, prof. dr. Janez Žerovnik, prof. dr. Mirjana Kljajić Borštnar in mag. Samo Drobne bo **eferiran** v: ISI (Index to Scientific and Technical Proceedings on CD-ROM and ISI/ISTP&B online database), Current Mathematical Publications, Mathematical Review, MathSci, Zentralblatt für Mathematics, Mathematics Abstracts, MATH on STN International CompactMath, INSPEC, Journal of Economic Literature.

Referati v zborniku del so razdeljeni v štirinajst poglavij (številka v oklepaju pomeni število prispevkov v sekciiji): Plenary Lectures (6), Qualitative Multiple Criteria Decision Making (6 papers), Inventory Research (7), Metaheuristic Optimization (7), Big Data (4), Mathematical Programming and Optimization (7), Graphs and their Applications (5), Multiple Criteria Decision Making (5), Econometric Models and Statistics (10), Production (7), Finance and Investments (7), Location and Transport (7), Environment and Human Resources (9), OR Perspectives (6).

Vsebina in struktura prispevkov je bila tokrat nekoliko usmerjena v korist problemskim sklopom, čeprav je bilo tudi veliko zelo kakovostnih metodoloških prispevkov. Opazno je, da se operacijske raziskave vse bolj vključujejo v neposredne gospodarske probleme; navkljub velikemu številu udeležencev, ki so običajno avtorji, zlasti teoretičnih prispevkov, z univerz in raziskovalnih inštitutov. Nadalje je potrebno poudariti, da je bilo med avtorji veliko predstavnikov mlajše generacije, kar pomeni, da imajo operacijske raziskave tudi, kar se tiče kadrov, svetlo prihodnost.

Kot v preteklih letih (SOR'05, SOR'07, SOR'09, SOR'11 in SOR'13), smo žal tudi ob tem dogodku opazili, da je bila kljub pravočasnemu in ustreznemu informirjanju občutna premajhna odzivnost uporabnikov OR-raziskovanja; pri tem mislimo tako zastopnike javnih sistemov kot na zastopnike industrije. To so predvsem energetski, okoljevarstveni, elektroenergetski, gradbeniški, transportni, vojaški strokovnjaki, med drugimi so to strokovnjaki iz managementa industrijskih podjetij in proizvodnje. To so skratka vsi tisti, ki bi pri svojem delu morali intenzivno uporabljati metode OR. V primeru, da bi bilo srečanje tako izpopolnjeno, k čemur bienalni simpoziji iz OR težijo, bi lahko prišlo že v okviru simpozija do začetka reševanja problemov, ki se v Sloveniji v okviru OR s praktičnega stališča zdijo kritični. To so predvsem identifikacija problemov in identifikacija ljudi ter skupin, ki se tako na strani uporabnikov kot na strani izvajalcev lahko soočijo z njimi. V takšnem primeru bi lahko prišlo do zametka primernih delovnih skupin. Smatramo, da bi se v bodoče moralo Ministrstvo za gospodarstvo bolj aktivno vključiti v delo simpozija.

Na koncu lahko ugotovimo, da je SOR'15, ki je tokrat obeležil že 13. izvedbo, presegel naša pričakovanja tako v strokovnem kot tudi moralnem pogledu. Velika udeležba tujih strokovnjakov je potrdila zaupanje v naše strokovne sile, obenem pa nudila domačim strokovnjakom priložnost, da se seznanijo z dosežki, ki razvitemu svetu pomenijo generator njihove diferencialne rente.

SOR'15 je finančno podprl tudi EURO (The Association of European Operational Research Societies).

Seznam referatov SOR'15

Podroben seznam referatov po dnevih je razviden iz priloženega delovnega programa SOR'15. V nadaljevanju podajamo seznam referatov po sekcijah (iz zbornika del SOR'15):

Plenary Lectures

Aharon Ben-Tal

Robust Solutions of Uncertain Optimization Problems under Ambiguous Stochastic Data

Sergio Cabello

Two Applications of Geometric Optimization

Stefano Cozzini

HPC as a Key-Enabling Technology

Nebojša Gvozdenović

OR Techniques in Real World Vehicle Routing

Gerhard Wilhelm Weber, Emel Savku, Diogo Pinheiro and Nuno Azevedo

A New Contribution to Operational Research: Optimal Control of Stochastic Hybrid Systems with Jumps - with Applications in Finance, Economics, Engineering and Biosciences

Shuoguo Wei and Ou Tang

Remanufacturing and Core Acquisition

Special Session 1: Qualitative Multiple Criteria Decision Making

Marko Bohanec, Nejc Trdin and Branko Kontić

A Qualitative Multi-Criteria Model for the Evaluation of Electric Energy Production Technologies in Slovenia

Marko Debeljak, Sašo Džeroski, Vladimir Kuzmanovski, Jonathan Marks-Perreau, Aneta Trajanov and Benoit Real

Decision Support Modelling for Environmentally Safe Application of Pesticides Used in Agriculture

Mirjana Kljajić Boršnar, Tomi Ilijas and Andreja Pucihar

Assessment of Cloud High Performance Computing Potential for SMEs

Matej Mihelčić and Marko Bohanec

Empirical Comparison of three Methods for Approximating DEX Utility Functions

Uroš Rajković and Vladislav Rajković

Managing Different Interests in Group Decision Making

Črtomir Rozman, Karmen Pažek, Viljem Pavlović, Marko Bohanec and Martin Pavlović

Application of Multi Criteria DEX Model in HOP Breeding

Special Session 2: Inventory Research

David Bogataj and Marija Bogataj

Floating Points of a Cold Supply Chain in an Environment of the Changing Economic Growth

David Bogataj, Marija Bogataj, Damjana Drobne, Lorenzo Ros-McDonnell, Rebeka Rudolf and Domen Hudoklin

Investments in Smart Nano-Control Systems in Cold Supply Chains

Robert W Grubbström

Some Aspects on the Distribution of the Net Present Value of a Stochastic Cash Flow Generated by a Compound Renewal Process

Marko Jakšić

Near-Optimality of Myopic Policy for the Dual Sourcing Inventory Problem with Stochastic Capacitated Supplier

Athanassios Nikolopoulos and Ioannis Ganas

Inventory Routing and Control Models for the Distribution of Industrial Gases: A Multiperiod Deterministic and a Dynamical Predictive Approach

Erica Pastore, Arianna Alfieri and Giulio Zotti

Managing Different Demand Classes in a Spare Parts Inventory: a Practical Dynamic Allocation Strategy

Lorenzo Ros-McDonnell and Maria Victoria de-la-Fuente Aragon

Modelling the Crude Oil Storage Management

Special Session 3: Metaheuristic Optimization

Petra Drevenšek, Vida Vukašinović, Gregor Papa and Peter Korošec

Suitability of MASA Algorithm for Traveling Thief Problem

Bogdan Filipič, Miha Mlakar and Tea Tušar

Multiobjective Optimization of Process Parameters in Steel Production

Tadej Kanduč and Blaž Rodič

Factory Transport Costs Optimisation with a Novel Heuristic Algorithm

Martin Pečar

Mobile Teams Problem

Omer Faruk Yilmaz and Mehmet Bulent Durmusoglu

Hybrid Metaheuristic Algorithm for a New Scheduling Problem in Hybrid Manufacturing Environment

Tulug Figen Yilmaz and Pinar Karagoz

Metaheuristic Based Automated Evaluation Method for Public Investment Projects

Hugo Zupan, Niko Heraković and Janez Žerovnik

A Hybrid Metaheuristic for Job-Shop Scheduling with Machine and Sequence-Dependent Setup Times

Special Session 4: Big Data

Tanja Gologranc, Janja Jerebic, Jaka Kranjc, Borut Lužar, Luka Mali, Janez Povh and Drago Bokal

On Applying Mathematical Models of Frequency Assignment to Wi-Fi Throughput Optimization

Lukáš Rapant, Kateřina Slaninová and Jan Martinovič

Traffic Incident Classification Using Bayesian Approach and Markov Chains

Tomáš Režnar, Jan Martinovič, Kateřina Slaninová and Ekaterina Grakova

Probabilistic Time-Dependent Vehicle Routing Problem

Darko Zelenika, Janez Povh and Bernard Ženko

Segmentation and Detection of Text in Document Images

Session 1: Mathematical Programming and Optimization

Nejc Bat, Marko Kobal and Tomi Ilijas

Analysis of Use Cases Using HPC Services in the Cloud

Milan Hladík

Interval Convex Quadratic Programming Problems in a General Form

Ludmila Jánošíková and Michal Havíar

Hybrid Genetic Algorithms For the Capacitated p-Median Problem

Latif Pourkarimi and Majid Soleimani-Damaneh

On Robustness in Deterministic Linear Programming

Maja Repnik and Drago Bokal

A Basis for Taxonomy of Fuzzy Linear Programming Methods

Galina Stoyanova Panayotova and Georgi Petrov Dimitrov

Design of Web-Based Information System for Optimization of Portfolio

Ilko Vrankić and Mira Krpan

Duality in Monopoly

Session 2: Graphs and Their Applications

Anna Azzi, Daria Battini, Alessandro Persona and Fabio Sgarbossa

Logistics Cycle Indexes: Supply Network Analysis Takes a Step Further

Ján Bendík

Improving the Exact Algorithm for Solving the Public Service System Design in the Branching

Michal Koháni

Various Modifications of Greedy Algorithm for the Zone Partitioning Problem in Zone Tariff Systems

Lukáš Melecký and Jana Hančlová

Measuring Environmental Efficiency of European Regions: A Meta-Frontier Approach

Aleksander Vesel

Star Coloring of Fibonacci Cubes

Session 3: Multiple Criteria Decision Making

Andrej Bregar

Generalisation of Methods for Criteria Weight Derivation Based on Discordance Information

Petra Grošelj and Lidija Zadnik Stirn

IGMDEA and TFNGMDEA Methods for Deriving Weights from Interval-Valued Comparison Matrices in AHP

Slawomir Jarek

Approximating Random Indexes in the Analytical Hierarchy Process

Nolberto Munier

A New Method Aiming at More Realistic Modelling and Dependable Results in Multicriteria Decision-Making

Tunjo Perić and Zoran Babić

A New Linearization Approach for Solving Multi Objective Linear Fractional Programming Problems

Session 4: Econometric Models and Statistics

Josip Arnerić, Ivana Lolić and Tea Poklepović

Algorithms for Maximum Likelihood Estimation of GARCH Models

Ana Bilandžić, Marina Jeger and Nataša Šarlja

How to Improve Interpretability of the Logistic Regression Model

Marko Bohanec, Mirjana Kljajić Borštnar and Marko Robnik-Šikonja

Feature Subset Selection for B2b Sales Forecasting

Michaela Chocholatá and Andrea Furková

Income Convergence of the EU Regions: Spatial Econometric Approach

Ksenija Dumičić, Berislav Žmuk and Anita Čeh Časni

Housing Affordability Levels in Selected European Countries: Hierarchical Clustering Approach

Liljana Ferbar Tratar

The Performance of the Modified Holt-Winters Method: A Study of 1428 Monthly Series From M3-Competition

Mirjana Pejić Bach and Jovana Zoroja

eGovernment Utilization in European Landscape: Hierarchical Cluster Analysis

Snježana Pivac, Branka Marasović and Dujam Kovač

Economic and Demographic Determinants of Demand for Life Insurance

Ervin Strmcnik and Liljana Ferbar Tratar

The Comparison of Holt-Winters Method and Multiple Regression Method: A Case of Monthly Heat Load Forecasting in the Company Energetika Ljubljana (Slovenia)

Berislav Žmuk

The Impact of Intracluster Homogeneity on the Survey Costs: A Croatian Business Survey

Session 5: Production

Đula Borozan and Luka Borozan

The Stationarity of Per Capita Electricity Consumption in Croatia Allowing for Structural Break(S)

Helena Gaspars-Wieloch

Innovative Products and NewsVendor Problem Under Uncertainty Without Probabilities

Gregory Gurevich, Baruch Keren and Yossi Hadad

The Robust Binomial Approach to the Machine Interference Problem with Different Groups of Identical Machines and Preemptive Priority

Eva Jordan, Tomaž Berlec, Marko Starbek and Janez Kušar

A Lean Production Process - Today's Destination of Companies

David Kaljun and Janez Žerovnik

On Modelling of Spatial Light Distribution of LED with Attached Secondary Optics

Michaela Staničková

Evaluation of Performance Among EU28 NUTS 2 Regions – Context-Dependent DEA to Catch-Up/Down Effect

Ozen Yavas and Ayca Altay

A Hybrid Metaheuristic Approach for Production Scheduling

Session 6: Finance and Investments

Josip Arnerić, Mirjana Čižmešija and Petar Sorić

Analysis of the Leverage Effect – Evidence from Ljubljana Stock Exchange

Dajana Cvrle, Vlasta Bahovec and Irena Palić

The Analysis of the Financial Education Impact on Investment Behavior in Croatia: Ordered Logistic Regression Approach

Anita Čeh Časni, Ksenija Dumičić and Irena Palić

Flexibility of Real and Nominal Wages in Slovenia and Croatia: Var Approach

Draženka Čizmić

Higher-Level Indices in the Consumer Price Index

Renata Kožul Blaževski and Jelena Vidović

Causality between State Aid and GDP in European Countries

Tihana Škrinjarić

Time Varying CAPM Betas on Zagreb Stock Exchange

Tihana Škrinjarić and Boško Šego

Dynamic Modeling of Stock and Bond Return Correlation in Croatia

Session 7: Location and Transport

Peter Czimermann and Štefan Peško

A Polynomial Algorithm for a Particular Obnoxious Facility Location Problem

Samo Drobne and Mitja Lakner

Intramax and Constraints

Eloy Hontoria and Darko Aleksovski

Practical Logistic Applications of Small Scale Traveling Salesman Problem for Small and Medium Enterprises

Marta Janackova and Alžbeta Szendreyova

Time-Distance Versus Utility in the Public Service System Design

Elza Jurun, Nada Ratković and Ivan Marijanović

Croatian Maritime Freight Transport in the Environment of Schengen Area

Marek Kvet and Jaroslav Janáček

Semi-Fair Deployment of the Service Centers in a Transportation Network

Polona Pavlovčič Prešeren, Bojan Stopar, Miran Kuhar and Oskar Sterle

Fuzzy Logic Based Quality Assessment in Kinematic GNSS-Positioning

Session 8: Environment and Human Resources

Alenka Brezavšček and Alenka Baggia

Analysis of Students' Flow in Higher Education Study Programmes Using Discrete Homogeneous Markov Chains

*Katarína Cechlárová, Pavlos Eirinakis, Tamás Fleiner, Dimitrios Magos,
Ioannis Mourtos and Eva Ocel'áková*

Approximation Algorithms for the Teachers Assignment Problem

Nataša Erjavec and Saša Jakšić

Regional Unemployment in Croatia: Evidence from Dynamic Panel Model

Jaroslav Janáček and Marek Kvet

Emergency System Design with Temporarily Failing Centers

Alenka Kavkler and Jani Bekő

Reestimating the Purchasing Power Parity System for Emerging Asian Countries

Tina Kocjančič, Jaka Žgajnar and Luka Juvančič

Incorporation of System Based Energy Indicators in Optimisation of Dairy Production
in Slovenia

Nataša Kurnoga and Mirjana Čižmešija

Has the Long-Term Recession Changed Managers' Assessments and Expectations in the
Croatia's Retail Trade Sector?

Andrea Majić, Adela Has and Marijana Zekić-Sušac

Discrete-Event Simulation Model of Customer Support Service in Telecommunications

Slavko Šimundić and Danijel Barbarić

Computer Crimes in Modern Society

Session 9: OR Perspectives

Frank Chen and Houmin Yan

Weather Risk Hedging - an Operations Perspective

Jawad Elomari

Racing with Reset Utilizing Full Information

Maciej Nowak and Tadeusz Trzaskalik

Optimal and Near-Optimal Strategies in Solving Bi-Criteria Discrete Stochastic Dynamic
Programming Problem

Andrei Orlov

On the Optimization Approach to Polymatrix Games

Zoran Selinger and Marijana Zekić-Sušac

Using Data Mining Methods in Web Analytics

Alexander S. Strekalovskiy

Nonconvex Optimization: Modern View

Tajnik SDI-SOR:

mag. Samo Drobne

Predsednica SDI-SOR:

prof. dr. Lidija Zadnik Stirn