

**The program of the first day of the Conference  
will be held in the ceremonial hall of Gimnazija  
Vrnjacka Banja**

Registration of participant is in the Gimnazija from 3  
p.m. to 5 p.m.

**The official opening of the Conference will be  
held in the ceremonial hall of Gimnazija  
Vrnjacka Banja at 5 p.m**

**The Welcome party will be held in the  
ceremonial hall of Villa Splendor at 8.p.m**

## TOPOLOGY

Sunday, 30 June 2024

08:00–09:40

**Chairman:** Cigdem Aras

08:20–08:40: Lubica Hola (Marek Balcerzak, Dušan Holy), Properties of equi-Baire 1 and equi-Lebesgue families of functions

08:40–09:00: Branislav Novotny (Lubica Hola), Baire-like properties of the space of minimal usco maps

09:00–09:20: Milan Matejdes, On ideals, filters, grills and primals in topological spaces

09:20–09:40: Sadi Bayramov, 2-normed structures on soft vector spaces

09:40–10:20 BREAK

10:20–12:00

**Chairman:** Brankoslav Novotny

10:20–10:40: Cigdem Aras, A new approach to hesitant fuzzy soft topological spaces

10:40–11:00 Hande Polut, Some fixed point results on soft A-metric spaces

11:00–11:20: Sang-Eon Han, Embeddings of  $T_k$ -topological spaces and their applications

11:20–11:40: Dimitris Georgiou, Studying the existence of universal elements in classes of semi-open mappings

11:40–12:00: Arza Goskun, Analysing the symptoms of the Covide-19 pandemic using fuzzy soft set theory

12:00–16:00: LUNCH TIME

16:00–17:40

**Chairman:** Sang-Eon Han

16:00–16:20: Dončo Dimovski, Connections among G-metric spaces and  $(3,j)$ -metric spaces and  $[3, \Delta, j]$ -metric spaces,  $j \in \{1, 2\}$

16:20–16:40: Tomi Dimovski, Some fixed point theorems in  $[3, \Delta, 2]$ -metric spaces

16:0–17:00: Osman Mucuk, About G-topological groups

19:00 DINNER

**Monday, 01 July 2024**

08:00–09:40

**Chairman:** Dimitris Georgiou

08:00–08:20: Vesko Valov, Continuous surjections between function spaces with pointwise topology

08:20–08:40: Vladimir Todorov, On pseudo-interior of Menger  $n$ -sponge

08:40–09:00: Nikita Shekutkovski, Continuity over coverings

09:00–09:20: Zoran Misajleski, Chain connectedness in a family of sets

09:20–09:40: Ljubiša Kočinac, On the space of  $\tau$ -smooth idempotent probability measures

09:40–10:20 BREAK

10:20–12:00

**Chairman:** Zoran Misajleski

10:20–10:40: Molaei Taherabadi Mohammadreza, Observational and formal topologies

10:40–11:00: Hom Ujjal Kumar, Set's forcing recurrence near zero in additive subsemigroup of positive reals

11:00–11:20: Dinara Kanetova, About compactness types of uniform spaces

11:20–11:40: Mahabat Beknazarova, Some properties of remainders of uniform spaces and uniformly continuous mappings

11:40–12:00: Bekbolot Kanetov, Selection principles in topological vector spaces

12:00–14:00: LUNCH TIME

14:00–17:00; Excursion to monastery Ljubostinja

19:00 CONFERENCE DINNER (RESTAURANT ISTRA)

**ANALYSIS**

**Sunday, 30 June 2024**

08:00–09:40

**Chairman:** Martin Bohner

08:20–08:40: Miloš Arsenović Non restricted non tangential limits for functions in the Zygmund class of separately  $(\alpha, \beta)$  harmonic functions in the unit polydisc

08:40–09:00: Jelena Gajić, Derivative estimates for generalized harmonic functions class of separately  $(\alpha, \beta)$  harmonic functions in the unit polydisc

09:00–09:20: Jasmina Vujadinović, (Vladimir Ristić, Rale Nikolić, Aleksandar Šebeković) Weaker forms of commutativity and common fixed points in Menger PM-spaces spaces

09:40–10:20 BREAK

12:00–16:00: LUNCH TIME

16:00–17:40

**Chairman:** Miloš Arsenović

16:00–16:20: Martin Bohner, A generalization of periodicity  
16:20–16:40: Eberhard Malkowsky, Bounded linear and compact operators  
on the generalised Hahn space  
16:40–17:00: Mališa Žižović, Logarithmic velocities of numerous sequences  
17:00–17:20: Nigar Aslanova (Khalig Aslanov), On some boundary value  
problems for the fourth order differential operator equation  
19:00 DINNER

**Monday, 01 July 2024**

08:00–09:40

**Chairman:** Miodrag Mateljević

08:40–09:00: Michael Ruzhansky  
09:00–09:20: Milan Lazarević, Inequalities for hyperaccretive quasinormal  
operators in norm ideals of compact operators  
09:20–09:40: Nikola Mutavdžić, (Miodrag Mateljević, Bojana Putić) Green  
function for  $T_\alpha$  Laplacian on the unit ball in  $\mathbb{R}^n$ .  
09:40–10:20 COFFEE BREAK  
12:00–14:00: LUNCH TIME  
14:00–17:00; Excursion to monastery Ljubostinja  
19:00 CONFERENCE DINNER (RESTAURANT ISTRA)

**Tuesday , 2 July 2024**

08:00–09:40

**Chairman:** Jelena Gajić

08:20–08:40: Miodrag Mateljević, Hölder and Lipschitz continuity of map-  
ping in Sobolev classes  $W^{1,p}(G)$   
08:40–09:00: Danica Fatić (Dragan Djurčić), Translational regular variation  
and asymptotic equivalence  
09:00–09:20: Nataša Čirović, (Siniša Nešić, Rale Nikoloć, Branislav Ran-  
djelović) Fixed point theorems in b-fuzzy metric spaces

**APPLICATIONS**

**Sunday, 30 June 2024**

08:00–09:40

**Chairman:** Nevena Petrović

08:20–08:40: Nevena Petrović, Anti-Gaussian quadrature rules related to multiple orthogonal polynomials

08:40–09:00: Nevena Vasović, Several modification of the Chebyshev measures and computation of the corresponding orthogonal polynomials in symbolic form

09:00–09:20: Nataša Pavlović

09:20–09:40: Darko Božanić, (Duško Tešić, Boža Miljković) Implementation of trapezoidal fuzzy numbers in the Defining interrelationships between ranked criteria II method and application in the MCDM model

09:40–10:00: Beti Andonović (Viktor Andonovik, Aleksandar Dimitrov), Machine Learning in optimizing Carbon Nanotubes and Graphene Production

10:00–10:20 BREAK

12:00–16:00: LUNCH TIME

16:00–17:40

**Chairman:** Danica Fatic

16:00–16:20: R.S.Akrabli (G.M.Salmanova), Problem of non-axisymmetric motion of a two-phase viscous fluid in an elastic shell

16:20–16:40: Rustamajon Sadikov (Elmira Nazirova, Abdugani Nematov, Ozoda Talipova), In a Non-single Poor Environment, an Algorithm and Program to Find an Effective Solution For Oil Filtration Border Problem

16:40–17:00: Nicoletta Sauling (Miloš Milovanović), Exploring Noise Effects: From Signal Components to Artistic Interpretations

17:00–17:20: Miloš Milovanović (Nicoletta Sauling ), Noise Effects: From Signal Components to Artistic Interpretations

17:20–17:40: Bratislav Sredojević, (Dejan Bojović), Numerical approximation of some parabolic time-dependent problems with Dirac delta function

19:00 DINNER

### Monday, 01 July 2024

08:00–09:40

**Chairman:** Predrag Stanimirović

08:00–08:20: Miroљjub Albijanić (Miodrag Žižović, Dragan Pamučar, Mališa Žižović), Multi-criteria models with multiple dominant criteria.

08:20–08:40: Predrag Stanimirović (Miroslav Ćirić), Simulations and bisimulations for weighted finite automata based on continuous recurrent neural networks

08:40–09:00: Dragan Stevanović, Polynomial indicator of flat bands

09:00–09:20: Milica Andjelić, Distribution of eigenvalues of threshold graphs

09:40–10:20 BREAK

10:20–12:00

12:00–14:00: LUNCH TIME

14:00–17:00; Excursion to monastery Ljubostinja

19:00 CONFERENCE DINNER (RESTAURANT ISTRA)