The First BALKAN WORKSHOP on FIXED POINT THEORY and APPLICATIONS

June 12-13, 2025 – Babeș-Bolyai University Cluj-Napoca

June 12, 2025

Registration: 9.00-9.30, **The Club**, Academic College, Em. de Martonne Str. no. 1

Opening: 9.30-9.40, **The Club**, Academic College, Em. de Martonne Str. no. 1

Time	Speaker	Affiliation	Title of the talk
Chair: Adrian PETRUSEL			
9.40-10.20	**Erdal KARAPINAR**	Atilim University Ankara	Recent advances on fixed point theory
10.20-11.00	**Vasile BERINDE**	Technical University Cluj-Napoca	Fixed point iterative schemes for nonexpansive type mappings in Data Science
11.00-11.30	**Cofee/Tea Break: in front of the "Piramida" Restaurant**		
Chair: Vasile BERINDE			
11.30-12.10	**Mădălina PACURAR**	Babeş-Bolyai University	Around r-cyclic operators
12.10-12.50	**Radu MICULESCU**	Transilvania University Braşov	Relational generalized iterated function systems
12.50-13.30	**Liliana GURAN**	Babeş-Bolyai University	New iterative schemes for fractal generation: algorithms, analysis, and visualizations
13.30-15.00	**Lunch: "Piramida" Restaurant**		
Chair: Cristian VLADIMIRESCU			
15.00-15.40	**Aurelian CERNEA**	University of Bucharest	On the existence of solutions for a certain fractional differential inclusion
15.40-16.20	**Valeriu GUȚU**	Moldova State University	How many contractions are needed to build an IFS with a given attractor?
16.20-17.00	**Vasile GLAVAN**	Moldova State University	Shadowing in extensions of dynamical systems
17.00-17.40	**Monica BOTA**	Babeş-Bolyai University	Fixed point results for non-self operators on generalized b-Banach spaces
17.40-18.20	**Abdulwahab AHMAD**	King Mongkut's University of Technology	Viscosity-type accelerated algorithms for variational inequalities and fixed points of demicontractive mappings with applications in classification problems and cybersecurity investments

Time	Speaker	Affiliation	Title of the talk
18.30			**Banquet: "Piramida" Restaurant**

June 13, 2025

Time	Speaker	Affiliation	Title of the talk
Chair: Radu MICULESCU			
9.00-9.40	**Radu PRECUP**	Babeş-Bolyai University	Hybrid vector fixed point theorems
9.40-10.20	**Cristian VLADIMIRESCU**	University of Craiova	Large-time behavior of solutions of a system of two coupled nonlinear oscillators described by second order ODEs with coefficient functions in W1,1 loc (0,∞) via a form of Schauder-Tychonoff fixed point theorem
10.20-11.00	**Adriana NICOLAE**	Babeş-Bolyai University	Subgradient minimization under nonpositive curvature
11.00-11.30		**Cofee/Tea Break: in front of the "Piramida" Restaurant**	
Chair: Erdal KARAPINAR			
11.30-12.10	**Marija CVETKOVIĆ**	University of Niš	Relations between iterates of contractive mappings
12.10-12.50	**Mircea BALAJ**	University of Oradea	Ky Fan inequality for bifunctions defined on the product of two different sets
12.50-13.30	**Andreea BEJENARU**	"Politehnica" University Bucharest	Quadratic expansive operators and their Mandelbrot-like sets
13.30-14.30		**Lunch: "Piramida" Restaurant**	
14.30		**Conference Photo (in front of the "Piramida" Restaurant)**	
Chair: Marija CVETKOVIĆ			
14.40-15.20	**Mahpeyker ÖZTÜRK**	Sakarya University	Hybrid contractive conditions in modular settings
15.20-16.00	**Cristina GHEORGHE**	Babeş-Bolyai University	Strict fixed point results related to Ciric and Ciric-Reich-Rus multivalued operators
16.00-16.40	**Natasa CIROVIĆ**	Univerity of Belgrade	On general convexity and fixed points in spaces with non-deterministic distances
16.40-17.20	**Andrei STAN**	Babeş-Bolyai University	Fixed point results and the Ekeland variational principle in vector B-metric spaces
17.20-17.40		**Cofee/Tea Break**	

Chair: Mahpeyker OZTURK			
17.40-18.20	**Adrian\Gabriela PETRUSEL**	Babeş-Bolyai University	Fixed point results in vector-valued metric spaces
18.20-19.00	**Marcel SERBAN**	Babeş-Bolyai University	Multivalued fibre contraction principle and applications
19.00	**Closing**		
19.30	**Dinner at the Club of the Academic College**		

GENERAL INFORMATION:

- The organizer of this meeting is **Faculty of Mathematics and Computer Science of the Babeş-Bolyai University Cluj-Napoca**. **The Co-Chairs** of the First Balkan Workshop on Fixed Point Theory and Applications are Adrian Petruşel and Marcel Adrian Şerban (Babeş-Bolyai University Cluj-Napoca)

- **The Scientific Committee** is composed by: Adriana Buică, Cristian Chifu, Sanda Micula, Gheorghe Moroșanu, Adriana Nicolae, Radu Precup, Ioan A. Rus

- **The Organizing Committee** of the meeting: Monica Bota, Darius Bufnea, Veronica Ilea, Lorand Parajdi, Gabriela Petruşel, Andrei Stan and the Ph.D. students Cristina Gheorghe, Mădălina Moga, Radu Trușcă

- **Each talk is of 35 minutes**, followed by 5 minutes for Q&A

- **Conference Venue**: The Club of the Academic College, Emmanuel de Martonne Str., no. 1, Cluj-Napoca

- **On Saturday (June 14, 2025) in the morning,** from 9.30 to 11.00 a guided tour of the city center is scheduled. Meeting point: in front of the Matthias Corvinus House, Matei Corvin Street 6, Cluj-Napoca (pedestrian area)

- **The proceedings** of the workshop will appear in the journal **Fixed Point Theory**, volume 27 (2026). The standard formal requirements of the journal apply for all the papers submitted for publication, please check and consult the journal webpage (**https://www.math.ubbcluj.ro/~nodeacj/**). The submitted papers must present original, non-published work of high quality. **Deadline for the submission: September 30, 2025.**

The complete list of participants: Abdulwahab Ahmad, Mircea Balaj, Andreea Bejenaru, Vasile Berinde, Monica Bota, Aurelian Cernea, Natasa Cirović, Marija Cvetković, Andreea Fulga, Cristina Gheorghe, Vasile Glăvan, Liliana Guran, Valeriu Guțu, Veronica Ilea, Erdal Karapinar, Sanda Micula, Radu Miculescu, Adriana Nicolae, Rale Nikolić, Mahpeyker Ozturk, Mădălina Păcurar, Adrian Petruşel, Gabriela Petruşel, Radu Precup, Ioan A. Rus, Andrei Stan, Cristian Vladimirescu.