Babeş-Bolyai University Cluj-Napoca

INTERNATIONAL CONFERENCE ON FIXED POINT THEORY AND ITS APPLICATIONS

July 9-18, 2012

Program

The registration and all the lectures will be held in the main building of the Babeş-Bolyai University Cluj-Napoca, Kogălniceanu Street, No.1, 1st floor, rooms: Aula Iorga (AI), Aula Popoviciu (AP), Room Rado (126), Room 146.

Sunday – 8 July 2012

17.00-19.00 **Registration (Room 146)**

Monday – 9 July 2012

08.00-08.30 **Late Registration (Room 146)**
08.45-09.10 Opening Ceremony (Aula Iorga (AI))
09.10-10.15 Plenary Lecture: (presented by Stanisław Prus)
(AI) **Kazimierz Goebel**
Problems I left behind

10.15-10.35 **Coffee Break** (Room 126)

Chair: (AI) **Tomás Domínguez Benavides**
(AP) **Brailey Sims**

Key Note Talks:
10.40-11.15 (AI) **Shigeo Akashi**
Fixed point theoretic approach to the Collatz mapping
(AP) **Wojciech Kryszewski, Adam Kanigowski**
Perron-Frobenius and Krein-Rutman theorems for tangentially positive operators
11.20-11.55 (AI) **Genaro López**
The role of nonexpansive type mappings in some optimization problems
(AP) **In-Sook Kim**
Eigenvalue problems for nonlinear maximal monotone operators

Short Talks:
12.00-12.15 (AI) **Stanisław Prus**
Estimates of the James constant for direct sums and interpolation spaces
(AP) **Ian Searston**
Projection algorithms in CAT(0) spaces
12.20-12.35 (AI) **Alexandru Mihai Bica, Mircea Curila, Sorin Curila**
Extending the method of successive approximations for integral equations

(AP) **Jamnian Nantadilok**
On new Furi-Pera type fixed point theorems involving four operators in Banach algebras

12.40-12.55 (AI) **Tadeusz Kuczumow**
Families of k_D-nonexpansive retracts

(AP) **David Ariza-Ruiz**
Firmly nonexpansive mappings in geodesic metric spaces

13.00-14.00 **Late Registration (Room 146)**

13.00-15.00 **Lunch Break**

Chair: (AI) **Vasile Berinde**
(AP) **Genaro López**

Key Note Talks:

15.00-15.35 (AI) **Ji Gao**
Semi-UKK spaces and fixed point property

(AP) **Zsolt Páles**
Iteration of averaging operators and Korovkin type theorems

Short Talks:

15.40-15.55 (AI) **Łukasz Piasecki**
Sharp evaluation of the spectral radius for mean lipschitzian mappings

(AP) **Helga Fetter**
A product space with the fixed point property

16.00-16.15 (AI) **Víctor Pérez García**
Another version of the von Neumann-Jordan constant

(AP) **H. Salahifard, S.M. Vaezpour**
Fixed points of non-Lipschitzian type mappings in CAT(0) spaces

16.20-16.40 **Coffee Break** (Room 126)

Chair: (AI) **Biagio Ricceri**
(AP) **Enrique Llorens-Fuster**

Short Talks:

16.40-16.55 (AI) **Pavol Safarik**
A quantitative nonlinear strong ergodic theorem for Hilbert spaces

(AP) **Mahpeyker Öztürk, Metin Başarır**
Fixed point theorems for generalized weak contractions satisfying rational expressions in generalized g-cone metric space

17.00-17.15 (AI) **Anna Betiuk-Pilarska, Stanislaw Prus**
N dimensional Riesz angle

(AP) **Mehdi Asadi**
Fixed point and common fixed point of mappings on CAT(0) spaces

17.20-17.35 (AI) **Yasunori Kimura**
Approximation of a common fixed point of quasinonexpansive mappings in a geodesic space

(AP) **Victoria Martín-Márquez**
Asymptotic regularity of firmly nonexpansive mappings

17.40-17.55 (AI) **Shahram Saeidi**
Fixed point properties and retractions

(AP) **Omar Muniz-Pérez**
On P- and p-convexity of Banach spaces

18.00-18.15 (AI) **Thabet Abdeljawad**
Partially contractive type coupled fixed point theorems
(AP) **Elisabetta Maluta**
A class of P-convex spaces lacking normal structure

18.20-18.35 (AI) **Takanori Ibaraki**
Shrinking projection methods for a family of generalized nonexpansive mappings in a Banach space
(AP) **Hossein Soleimani**
Fixed point approximations for mappings in geodesic spaces

18.40-18.55 (AI) **Wiesława Kaczor**
Some remarks on demiclosedness principle
(AP) **Aynur Şahin, Metin Başarır**
The Strong and Δ-convergence of S-Iteration Process for generalized nonexpansive mappings on CAT(0) space

18.55-19.10 (AI) **Rajesh Kumar Saini**
Multivalued and singlevalued common fixed point results in partially ordered metric space
(AP) **Dorel Miheț**
Probabilistic contractions with applications in the stability of functional equations

19.30 **Departure by bus to URSUS Beer Factory** (in front of the main building of the University)

20.00-22.00 **Welcoming Party with beer tasting at URSUS Beer Factory**

Tuesday – 10 July 2012

09.00-10.05 Plenary Lecture: (presented by Rafa Espínola)
(AI) **William Art Kirk**
Fixed point theorems in metric trees and arcwise connected topological spaces

10.10-10.30 **Coffee Break** (Room 126)

10.30-10.35 **First Official Photo of the Conference** (in front of the University)

Chair: (AI) **Stanislaw Prus**
(AP) **Tudor Zamfirescu**

Key Note Talks:

10.40-11.15 (AI) **Andrzej Cegielski, Rafał Zalas**
Methods for variational inequality problem over the intersection of fixed point sets of quasi-nonexpansive operators
(AP) **Carlos A. Hernández-Linares, Maria A. Japón**
Some connections between renorming theory and fixed point property

11.20-11.55 (AI) **Enrique Llorens-Fuster, Omar Muniz-Pérez**
Some relationships between sufficient conditions for the fixed point property
(AP) **Somyot Plubtieng**
Some existence results for system of general variational-like inequality problems

Short Talks:

12.00-12.15 (AI) **A.R. Khan, H. Fukhar-ud-din**
A unified approach to iterative construction of common fixed points in nonlinear domains
(AP) **Pierre von Mouche**
An equilibrium uniqueness result for aggregative games with a constructive proof

12.20-12.35 (AI) **Erdal Karapinar**
Remarks on some recent publications in Fixed Point Theory
(AP) **Monica Patriche**
Fixed points for weakly semicontinuous correspondences and applications in equilibrium theory

12.40-12.55 (AI) **Ilker Savas Yuce**
Rational forms that imply the uniqueness and existence of fixed points in partial metric spaces
(AP) **Z. Al-Rumaih, S. Chebbi, H-K. Xu**
Non-compact equilibrium points and applications

13.00-15.0 **Lunch Break**

Chair: (AI) **Maria A. Japón**
(AP) **Zsolt Páles**

Key Note Talks:

15.00-15.35 (AI) **Biagio Ricceri**
Some results and problems in fixed point theory
(AP) **Lai-Jiu Lin, Zenn-Tsun Yu, Chih-Sheng Chuang**
Fixed point theorems, convergence theorems and nonlinear ergodic theorems for new generalized nonlinear mappings in Hilbert spaces with applications

15.40-15.55 Short Talks:
(AI) **Tudor Zamfirescu**
Non-expanding mappings and fixed points in graph theory
(AP) **Sumitra Dalal, M. Alamgir Khan**
Coupled fixed point results in symmetric G-metric space

16.00-16.15 (AI) **Kenan Tas**
Recent developments in cyclic contraction
(AP) **H. Bouhadjera, C. Godet-Thobie**
Common fixed point theorems for pairs of subcompatible and subsequentially continuous maps

16.20-16.40 **Coffee Break** (Room 126)

Chair: (AI) **Ulrich Kohlenbach**
(AP) **Jürgen Appell**

Short Talks:

16.40-16.55 (AI) **Koji Aoyama**
Fixed point and mean convergence theorems for hybrid mappings
(AP) **Radu Precup**
Weak Harnack inequalities and multiple positive fixed points

17.00-17.15 (AI) **Mădălina Păcurar, Vasile Berinde**
On some fixed point theorems for contractive type mappings defined on product spaces
(AP) **Piotr Kasprzak**
On Leggett-Williams type theorems for nonlinear operators defined in cones with applications to nonlinear equations

17.20-17.35 (AI) **Suthep Suantai**
Fixed point theorems and approximation methods for multi-valued mappings
(AP) **Paola Rubbioni**
Fixed point theorems for set-valued maps

17.40-17.55 (AI) **Adriana Nicolae**
On a class of nonexpansive-type mappings in geodesic spaces
(AP) **Jacek Wosko**
Minimal displacement and measure of noncompactness

18.00-18.15 (AI) **Daniel Körnlein**
Quantitative aspects of fixed point iterations for Lipschitz pseudocontractive maps
(AP) **B□zena Piątek**
Viscosity iteration in CAT(k)

18.20-18.35 (AI) **Satoshi Kodama**
A function theoretic generalization of Doss theorem related to Hilbert's 13th problem
(AP) **Filomena Cianciaruso, Vittorio Colao, Giuseppe Marino, H.-K. Xu**
Compactness results for differentiable functions and applications to the boundary value problems via fixed point methods

18.40-18.55 (AI) **Toshiharu Kawasaki, Wataru Takahashi**
Fixed point and nonlinear ergodic theorems for new nonlinear mappings in Hilbert spaces
(AP) **Prasit Cholamjiak**
Fixed point results for contractive type mappings on cone metric spaces involved with a graph

Wednesday – 11 July 2012

09.00-10.05 Plenary Lecture: (presented by Adrian Petruşel)
(AI) **Ioan A. Rus**
Five open problems in the fixed point theory in terms of fixed point structures (I): Singlevalued operators

10.10-10.35 **Coffee Break** (Room 126)

Chair: (AI) **Dušan Repovš**
(AP) **Tadeusz Kuczumow**

Key Note Talks:

10.40-11.15 (AI) **Jürgen Appell**
Fixed points, retractions, eigenvalues, and more
(AP) **Ulrich Kohlenbach**
Logical extraction of effective bounds from proofs in nonlinear ergodic theory

11.20-11.55 (AI) **Vasil G. Angelov**
Various applications of fixed point theorems in uniform spaces
(AP) **T.A. Burton, Bo Zhang**
Fixed point theory for fractional equations

Short Talks:

12.00-12.15 (AI) **S.M. Vaezpour, S. Shabanian**
KKM theory in modular spaces
(AP) **Giuseppe Marino, Luigi Muglia**
Some auxiliary mappings generated by families of mappings and solutions of variational inequalities on common fixed points-sets

12.20-12.35 (AI) **Aurelian Cernea**
Existence results for integral inclusions via fixed points
(AP) **Rafał Zalas, Andrzej Cegielski**
Generalized hybrid steepest descent method for variational inequality problem over the finite intersection of fixed point sets

12.40-12.55 (AI) **Viorica Mureşan**
On a functional-differential equation
(AP) **Mircea Balaj**
Existence criteria for the solutions of three types of variational relation problems

13.00-15.0 **Lunch Break**

Chair: (AI) **Ioan A. Rus**
(AP) **William Art Kirk**

Key Note Talks:
15.00-15.35 (AI) **Dušan Repovš**
A two-parameter control for contractive-like multivalued mappings
(AP) **Rafa Espínola**
The fixed point property for CAT(0) spaces for non convex and unbounded sets
15.40-16.15 (AI) **Vicenţiu Rădulescu**
Fixed point methods in the study of nonlinear differential equations
(AP) **Palanichamy Veeramani**
Fixed point theorems and best proximity point theorems

16.20-17.00 **Coffee Break and Poster Session** (University Club, E.de Martonne Street)

Chair: (AI) **Radu Precup**
(AP) **Jesus Garcia-Falset**

Short Talks:
17.05-17.20 (AI) **Adriana Buică, Jaume Giné, Jaume Llibre**
A second order analysis of the periodic solutions for nonlinear periodic differential systems with a small parameter
(AP) **Aurora Fernández-León**
Best proximity points for non-self mappings
17.25-17.40 (AI) **Szilárd András**
Kernel perturbation of Picard iterates for first order nonlinear systems with nonlocal initial conditions
(AP) **Koji Aoyama**
Fixed point and mean convergence theorems for hybrid mappings
17.45-18.00 (AI) **Valeriu Guţu**
On the connectedness of attractors of affine hyperbolic IFS
(AP) **Buthinah A. Bin Dehaish**
Mann iteration process for asymptotic pointwise nonexpansive mappings in metric spaces
18.05-18.20 (AI) **Abdolrahman Razani**
An application of Schauder's fixed point theorem
(AP) **Monika Budzyńska**
The Denjoy-Wolff theorem for condensing and holomorphic mappings

Thursday – 12 July 2012

07.30- 20.00 **One day trip to Alba-Iulia and Cetatea de Baltă including wine tasting and lunch (time: 15.00) in Bethlem-Haller Castle**

Departure: 07.30 - near the main building of Babeş-Bolyai University
Meeting point: in front of the main building of the University

We will visit Alba-Iulia citadel (**please take with you a white hat as protection against the sun**) and then, we will have lunch (including wine tasting) in Bethlem-Haller castle (**please take a jacket,** since the lunch will take place in the castle cellar where the temperature is around 18 Celsius degrees).

Friday – 13 July 2012

Chair: (AI) **Rafa Espínola**
(AP) **T.A. Burton**

Key Note Talks:

09.00-09.35 (AI) **C.E. Chidume, C.O. Chidume**
A convergence theorem for zeros of uniformly continuous generalized Phi-quasi accretive mappings
(AP) **Jesus Garcia-Falset**
Existence and uniqueness for an evolution equation arising in growing cell population

09.40-10.15 (AI) **Sompong Dhompongsa**
On the means of projections on CAT(0) spaces
(AP) **Alexandru Kristaly**
Nash-type equilibria on Riemannian manifolds: a variational approach

10.20-10.40 **Coffee Break** (Room 126)

Chair: (AI) **Helga Fetter**
(AP) **Ştefan Cobzaş**

Short Talks:

10.40-11.55 (AI) **Berta Gamboa de Buen**
The fixed point property in the space c_0 with an equivalent norm
(AP) **Liviu Cădariu**
Fixed point theorems for the Hyers-Ulam stability of functional equations

12.00-12.15 (AI) **Vasile Glavan**
Linear horseshoes as random fixed points in affine IFS
(AP) **Krzysztof Bolibok**
Minimal displacement and fixed point property for lipschitzian and uniformly lipschitzian mappings

12.20-12.35 (AI) **Alpár Richárd Mészáros**
Ulam-Hyers stability of elliptic partial differential equations in Sobolev spaces
(AP) **Cristian Vladimirescu**
Asymptotic stability to certain integral equations, via fixed point theory

12.40-12.55 (AI) **Aqeel Khan**
Strong convergence by the shrinking effect of two half spaces
(AP) **Hudson Akewe**
Fixed point theorems for mappings satisfying general contractive condition of integral type in G-metric spaces

12.40-12.45 **Second Official Photo of the Conference** (in front of the University)

13.00-15.0 **Lunch Break**

Chair: (AI) **S. Dhompongsa**
(AP) **C.E. Chidume**

Short Talks:

15.00-15.15 (AI) **Marcel-Adrian Şerban**
Fibre contraction principle with respect to an iterative algorithm
(AP) **Ştefan Cobzaş**
Ekeland Variational Principle in asymmetric locally convex spaces and in quasi-uniform spaces

15.20-15.35 (AI) **Bianca Satco**
An application of Krasnosel'skii fixed point theorem to nonlinear integral equations
(AP) **C. E. Chidume, N. Djitte**
Approximation of fixed points of continuous bounded pseudo-contractive mappings

15.40-15.55 (AI) **S. Dhompongsa, A. Kaewkhao, B. Panyanak**
Browder's convergence theorem for multivalued mappings without endpoint condition
(AP) **Adrian Petruşel**
Fixed point theorems in vector-valued metric spaces with applications

16.00-16.25 **Coffee Break** (Room 126)

Chair: (AI) **Alexandru Tămăşan**
(AP) **Berta Gamboa de Buen**

Short Talks:

16.30-16.45 (AI) **Monica-Felicia Boriceanu-Bota, Tünde Petra Petru**
The theory of a fixed point theorem for multivalued operators in b-metric spaces
(AP) **Elena Moreno**
Relations between classes of multivalued generalized nonexpansive mappings and fixed point theorems

16.50-17.05 (AI) **Sorin Mureşan, Octavia Nica**
Some remarks on the bilocal problem
(AP) **Diana Otrocol**
On the asymptotic equivalence of a differential system with maxima

17.10-17.25 (AI) **Cristian Chifu, Gabriela Petruşel**
Generalized contractions in metric spaces endowed with a graph
(AP) **Mohamadi Issa**
An approximation of the solution of some variational inequalities

19.30-23.00 **Conference Banquet:** Bellagio Restaurant at *Opera Plaza Hotel* Traian Moşoiu Street, No. 10-12

Saturday – 14 July 2012

Chair: (AI) **Kazimierz Goebel**

Key Note Talks:

09.00-09.35 (AI) **Tomás Domínguez Benavides**
Looking for a renorming with the stable fixed point property

09.40-10.15 (AI) **Brailey Sims**
Mean recurrences

10.20-10.40 **Coffee Break** (Room 126)

Chair: (AI) **Elisabetta Maluta**

Key Note Talks:

10.45-11.20 (AI) **Jurij Kozicki**
Dynamics on Banach spaces with applications in life sciences

11.25-12.00 (AI) **Alexandru Tămăşan**
Conductivity imaging from minimal current density data

Short Talks:

12.05-12.20 (AI) **Anton S. Mureşan**
Graphic contractions

12.25-12.40 (AI) **Nicolaie Lungu**
Optimal Gronwall Lemmas

13.00-15.00 **Lunch Break**

Sunday – 15 July 2012

08.30 **Departure for the three days trip to Maramureş County (**in front of the main building of the University)

Attention: Please take with you a jacket and adequate shoes, since we will walk in the mountains at 1000 meters high.

Tuesday – 17 July 2012

20.00 **Arrival in Cluj-Napoca**

Wednesday – 18 July 2012

Departure of the participants