



ROMÂNIA
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RECTORATUL

Universitatea Babeş-Bolyai Competiția Excelenței 2010

Dosar individual

Notă: Toate datele se referă la perioada 2005-2009

Nume, prenume, grad did.	KASSAY GABOR, PROFESOR
Facultatea, Catedra	Matematica si Informatica, Algebra, Analiza si Geometrie
Domeniul științific	Analiza neliniara cu aplicatii
Adresa paginii web personale	http://math.ubbcluj.ro/~kassay
Adresa e-mail	kassay@math.ubbcluj.ro

Criteriul I – Output

1. Articole științifice publicate în reviste indexate ISI (cu menționare factorului de impact în cazul celor cotate)

1. Alfredo N. Iusem, **Gábor Kassay** and Wilfredo Sosa: *An existence result for equilibrium problems with some surjectivity consequences*, **Journal of Convex Analysis** 16 (2009), No. 3, pp. 807-826.

Factor de impact : 0.911

2. **Gábor Kassay**, Cornel Pintea and Ferenc Szenkovits: *On convexity of preimages of monotone operators*, **Taiwanese Journal of Mathematics** 13, No. 2B (2009), pp. 675-686.

Factor de impact: 0.583

3. M. Bianchi, **G. Kassay** and R. Pini: *Well-posedness for vector equilibrium problems*, **Mathematical Methods in Operations Research** 70 (2009), pp. 171-182.

Factor de impact : 0.476

4. A. N. Iusem, **G. Kassay** and W. Sosa: *On certain conditions for the existence of solutions of equilibrium problems*, **Mathematical Programming** 116 (2009), pp. 259-273.

Factor de impact: 2.336

5. R. I. Boț, **G. Kassay** and G. Wanka: *Duality for almost convex optimization problems via the perturbation approach*, **Journal of Global Optimization** 42 (2008), pp. 285-399.

Factor de impact: 1.062

6. Dan Butnariu and **Gabor Kassay**: *A proximal-projection method for finding zeros of set-valued operators*, **SIAM Journal of Control and Optimization** 47 No. 4 (2008), pp. 2096-2136.

Factor de impact: 1.517

7. Giancarlo Bigi, Marco Castellani and **Gabor Kassay**: *A dual view of equilibrium problems*, **Journal of Mathematical Analysis and Applications** 342 (2008), pp. 17-26.

Factor de impact: 1.046

8. J. B. G. Frenk and **G. Kassay**: *Lagrangian duality and cone convexlike functions*, **Journal of Optimization Theory and Applications** 134 (2007), pp. 207-222.

Factor de impact: 0.86

9. J. B. G. Frenk, P. Kas and **G. Kassay**: *On linear programming duality and necessary and sufficient conditions in minimax theory*, **Journal of Optimization Theory and Applications** 132 (2007), pp. 423-439.

Factor de impact: 0.86

10. M. Bianchi, **G. Kassay** and R. Pini: *Ekeland's principle for vector equilibrium problems*, **Nonlinear Analysis** 66 (2007), pp. 1454-1464.

Factor de impact: 1.295

11. J. B. G. Frenk and **G. Kassay**: *The level set method of Joó and its use in minimax Theory*, **Mathematical Programming** 105 (2006), pp. 145-155.

Factor de impact: 2.336

12. R. I. Boț, **G. Kassay** and G. Wanka: *Strong Duality for Generalized Convex Optimization Problems*, **Journal of Optimization Theory and Applications** 127 (2005), pp. 45-70.

Factor de impact: 0.86

13. Monica Bianchi, **Gábor Kassay** and Rita Pini: *Existence of equilibria via Ekeland's principle*, **Journal of Mathematical Analysis and Applications** 305 (2005), pp. 502-512.

Factor de impact: 1.046

14. L.J. Lin, M. F. Yang, H.Q. Ansari and **G. Kassay**: *Existence Results for Stampacchia and Minty Type Implicit Variational Inequalities with Multivalued Maps*, **Nonlinear Analysis** **61**, pp. 1-19, 2005.

Factor de impact: 1.295

15. J. B. G. Frenk, **G. Kassay** and V. Protassov: *On Borel Probability Measures and Noncooperative Game Theory*, **Optimization** **54**, pp. 81-101, 2005.

Factor de impact : 0.845

2. Articole științifice publicate în ISI proceedings

Yakov Alber, Dan Butnariu and **Gábor Kassay**: *Convergence and Stability of a Regularization Method for Maximal Monotone Inclusions and its Applications to Convex Optimization*, in: *Variational Analysis and Appls.*, F. Giannessi and A. Maugeri (Eds.), pp. 89-132, **Springer**, Berlin-Heidelberg-New York 2005, ISBN 0-387-24209-0

3. Articole științifice indexate în BDI (din lista CNCISIS)

4. Alte articole științifice/capitole publicate în reviste/volume cu referenți (peer-reviewed)

J. B. G. Frenk, **G. Kassay**: *On noncooperative games and minimax theory*, in: **Proceedings of the 4th Twente workshop on Cooperative Game Theory joint with 3rd Dutch-Russian symposium**, edited by T.S.H. Driessen, J.B. Timmer and A.B. Khmelnitskaya, Enschede, June 28-30, 2005; pp. 61-69, ISSN 1574-0846

5. Cărți științifice publicate în edituri internaționale

Capitole invitate pentru publicare in carti editate de **Springer**:

1. J. B. G. Frenk and **G. Kassay**: *On noncooperative games, minimax theorems and equilibrium problems*, in: *Pareto Optimality, Game Theory and Equilibria*, Series: **Springer Optimization and Its Applications**, Athanasios Migdalas (Crete), Panos Pardalos (Florida), Leonidas Pitsoulis (London) and Altannar Chinchuluun (Florida) (Eds.), Vol. 17, 2008 XXII, pp. 53-94, ISBN: 978-0-387-77246-2

2. Johannes B. G. Frenk and **Gábor Kassay**: *Introduction to Convex and Quasiconvex Analysis*, in: *Handbook of Generalized Convexity and Monotonicity*, Series: *Nonconvex Optimization and its Applications*, Vol. 76, Hadjisavvas, Nicolas; Komlósi, Sándor; Schaible, Siegfried (Eds.), pp. 3-87, **Springer**, Berlin-Heidelberg-New York 2005, ISBN 0-387-23255-9

6. Cărți științifice publicate în edituri naționale acreditate

Kassay Gábor, Kolumbán József, Marchiș Julianna: *Valós Számok és Metrikus Terek (Numere Reale și Spații Metrice)*, **Presa Universitară Clujeană**, 227 pg., 2005, ISBN 973-610-357-9

7. Editor de volume publicate în edituri naționale și internaționale

Z. Kása, **G. Kassay**, J. Kolumbán (Eds.), "Proceedings of the International Conference In Memoriam Gyula Farkas", **Presa Universitară Clujeană**, Cluj-Napoca, 2006, ISBN: 978-973-610-459-6

8. Brevete internaționale

9. Brevete naționale

10. Impact tehnologic al brevetelor: resurse financiare extrabugetare atrase în relație cu economia

11. Realizări artistice naționale și internaționale (Domeniul Arte) (Expoziții, spectacole, concerte, publicații, filme, înregistrări)

Criteriaul II – Prestigiu profesional

1. Citări ale articolelor ISI listate la Criteriaul I

Articolul

Alfredo N. Iusem, **Gábor Kassay** and Wilfredo Sosa: *An existence result for equilibrium problems with some surjectivity consequences*, **Journal of Convex Analysis** 16 (2009), No. 3, pp. 807-826

citat in:

1. [Extragradient algorithms extended to equilibrium problems](#)

Author(s): Tran DQ, Le Dung M, Nguyen VH Source: OPTIMIZATION Volume: 57 Issue: 6 Pages: 749-776 Published: 2008

Articolul

Giancarlo Bigi, Marco Castellani and **Gabor Kassay**: *A dual view of equilibrium problems*, **Journal of Mathematical Analysis and Applications** 342 (2008), pp. 17-26

citat in:

2. [A New Hybrid Algorithm for Variational Inclusions, Generalized Equilibrium Problems, and a Finite Family of Quasi-Nonexpansive Mappings](#) Author(s): Cholamjiak P, Suantai S Source: FIXED POINT THEORY AND APPLICATIONS Article Number: 350979 Published: 2009

3. [SOME NEW ITERATIVE ALGORITHMS FOR GENERALIZED MIXED EQUILIBRIUM PROBLEMS WITH STRICT PSEUDO-CONTRACTIONS AND MONOTONE MAPPINGS](#)

Author(s): Peng JW, Yao JC Source: TAIWANESE JOURNAL OF MATHEMATICS Volume: 13 Issue: 5 Pages: 1537-1582 Published: OCT 2009

4. [Duality in epsilon-variational inequality problems](#) Author(s): Lalitha CS, Bhatia G Source: JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS Volume: 356 Issue: 1 Pages: 168-178 Published: AUG 1 2009

5. Title: [An Iterative Algorithm Combining Viscosity Method with Parallel Method for a Generalized Equilibrium Problem and Strict Pseudocontractions](#)

Author(s): Peng JW, Liou YC, Yao JC Source: FIXED POINT THEORY AND APPLICATIONS Article Number: 794178 Published: 2009

Articolul

M. Bianchi, **G. Kassay** and R. Pini: *Ekeland's principle for vector equilibrium problems*, **Nonlinear Analysis** 66 (2007), pp. 1454-1464

Citat in:

6. [LEVITIN-POLYAK WELL-POSEDNESS OF GENERALIZED VECTOR QUASI-EQUILIBRIUM PROBLEMS](#) Author(s): Li MH, Li SJ, Zhang WY Source: JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION Volume: 5 Issue: 4 Pages: 683-696 Published: NOV 2009

7. [An Ekeland's variational principle for set-valued mappings with applications](#)

Author(s): Zeng J, Li SJ Source: JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS Volume: 230 Issue: 2 Pages: 477-484 Published: AUG 15 2009

8. [From quasivariational inclusion problems to Stampacchia vector quasiequilibrium problems. Stampacchia set-valued vector Ekeland's variational principle and Caristi's fixed point theorem](#)

Author(s): Lin LJ, Chuang CS, Wang SY Source: NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS Volume: 71 Issue: 1-2 Pages: 179-185 Published: JUL 1 2009

9. [Existence theorems for variational inclusion problems and the set-valued vector Ekeland variational principle in a complete metric space](#) Author(s): Lin LJ, Chuang CS Source:

NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS Volume: 70 Issue: 7 Pages: 2665-2672 Published: APR 1 2009

10. [EXISTENCE OF VECTOR EQUILIBRIA VIA EKELAND'S VARIATIONAL PRINCIPLE](#)

Author(s): Araya Y, Kimura K, Tanaka T Source: TAIWANESE JOURNAL OF MATHEMATICS Volume: 12 Issue: 8 Special Issue: Sp. Iss. SI Pages: 1991-2000 Published: NOV 2008

11. [On some nonlinear problems induced by an abstract maximal element principle](#)

Author(s): Du WS Source: JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS Volume: 347 Issue: 2 Pages: 391-399 Published: NOV 15 2008

12. [On maximal element theorems, variants of Ekeland's variational principle and their applications](#) Author(s): Lin LJ, Du WS Source: NONLINEAR ANALYSIS-THEORY

METHODS & APPLICATIONS Volume: 68 Issue: 5 Pages: 1246-1262 Published: MAR 1 2008

Articolul

J. B. G. Frenk, P. Kas and **G. Kassay**: *On linear programming duality and necessary and sufficient conditions in minimax theory*, **Journal of Optimization Theory and Applications** 132 (2007), pp. 423-439

Citat in:

13. [New differential properties of sup-type functions](#) Author(s): Zhou JC, Wang CY Source: ACTA MATHEMATICAE APPLICATAE SINICA-ENGLISH SERIES Volume: 25 Issue: 2 Pages: 243-254 Published: APR 2009

Articolul

R. I. Boț, **G. Kassay** and G. Wanka: *Strong Duality for Generalized Convex Optimization Problems*, **Journal of Optimization Theory and Applications** 127 (2005), pp. 45-70

Citat in:

14. [Some Farkas-type results for fractional programming problems with DC functions](#) Author(s): Zhang XH, Cheng CZ Source: NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS Volume: 10 Issue: 3 Pages: 1679-1690 Published: JUN 2009

15. [Saddle Point and Duality for Vector Optimization with Generalized Convexity](#) Author(s): Xu SL, Jiang J Conference Information: 5th International Conference on Fuzzy Systems and Knowledge Discovery, OCT 18-20, 2008 Jinan, PEOPLES R CHINA Source: FIFTH INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS AND KNOWLEDGE DISCOVERY, VOL 1, PROCEEDINGS Pages: 635-638 Published: 2008

16. [Different Conjugate Dual Problems in Vector Optimization and Their Relations](#) Author(s): Chen CR, Li SJ Source: JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS Volume: 140 Issue: 3 Pages: 443-461 Published: MAR 2009

17. [Conjugate dual problems in constrained set-valued optimization and applications](#) Author(s): Li SJ, Chen CR, Wu SY Source: EUROPEAN JOURNAL OF OPERATIONAL RESEARCH Volume: 196 Issue: 1 Pages: 21-32 Published: JUL 1 2009

18. [Optimality conditions for weak efficiency to vector optimization problems with composed convex functions](#) Author(s): Bot RI, Hodrea IB, Wanka G Source: CENTRAL EUROPEAN JOURNAL OF MATHEMATICS Volume: 6 Issue: 3 Pages: 453-468 Published: SEP 2008

19. [Farkas-type results and duality for DC programs with convex constraints](#) Author(s): Dinh N, Vallet G, Nghia TTA Source: JOURNAL OF CONVEX ANALYSIS Volume: 15 Issue: 2 Pages: 235-262 Published: 2008

20. [Saddle points and gap functions for vector equilibrium problems via conjugate duality in vector optimization](#) Author(s): Li SJ, Yao SF, Chen CR Source: JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS Volume: 343 Issue: 2 Pages: 853-865 Published: JUL 15 2008

21. [Some new Farkas-type results for inequality systems with DC functions](#)
 Author(s): Bot RI, Hodrea IB, Wanka G Source: JOURNAL OF GLOBAL OPTIMIZATION
 Volume: 39 Issue: 4 Pages: 595-608 Published: DEC 2007
22. [New constraint qualification and conjugate duality for composed convex optimization problems](#)
 Author(s): Bot RI, Grad SM, Wanka G Source: JOURNAL OF OPTIMIZATION
 THEORY AND APPLICATIONS Volume: 135 Issue: 2 Pages: 241-255 Published: NOV
 2007
23. [Conjugate duality for generalized convex optimization problems](#) Author(s): Dhara A, Mehra
 A Source: JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION Volume: 3
 Issue: 3 Pages: 415-427 Published: AUG 2007
24. [Fenchel's duality theorem for nearly convex functions](#) Author(s): Bot RI, Grad SM, Wanka G
 Source: JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS Volume: 132 Issue:
 3 Pages: 509-515 Published: MAR 2007
25. [Farkas-type results for fractional programming problems](#) Author(s): Bot RI, Hodrea IB,
 Wanka G Source: NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS
 Volume: 67 Issue: 6 Pages: 1690-1703 Published: SEP 15 2007
26. [Fenchel-Lagrange duality versus geometric duality in convex optimization](#)
 Author(s): Bot RI, Grad SM, Wanka G Source: JOURNAL OF OPTIMIZATION THEORY
 AND APPLICATIONS Volume: 129 Issue: 1 Pages: 33-54 Published: APR 2006
27. [Farkas-type results for max-functions and applications](#) Author(s): Bot RI, Wanka G Source:
 POSITIVITY Volume: 10 Issue: 4 Pages: 761-777 Published: NOV 2006
28. [A weaker regularity condition for subdifferential calculus and Fenchel duality in infinite dimensional spaces](#)
 Author(s): Bot RI, Wanka G Source: NONLINEAR ANALYSIS-THEORY METHODS &
 APPLICATIONS Volume: 64 Issue: 12 Pages: 2787-2804 Published: JUN 15 2006

Articolul

Monica Bianchi, **Gábor Kassay** and Rita Pini: *Existence of equilibria via Ekeland's principle*,
Journal of Mathematical Analysis and Applications **305**, pp. 502-512, 2005

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29. [LEVITIN-POLYAK WELL-POSEDNESS OF GENERALIZED VECTOR QUASI-EQUILIBRIUM PROBLEMS](#) Author(s): Li MH, Li SJ, Zhang WY Source: JOURNAL OF
 INDUSTRIAL AND MANAGEMENT OPTIMIZATION Volume: 5 Issue: 4 Pages: 683-696
 Published: NOV 2009
30. [Variational statements on KST-metric structures](#) Author(s): Turinici M Source: ANALELE
 STIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA-SERIA MATEMATICA
 Volume: 17 Issue: 1 Pages: 231-246 Published: 2009

31. [PSEUDOMETRIC ZHONG PRINCIPLES AND EQUILIBRIUM POINTS](#)
 Author(s): Turinici M Source: ANALELE STIINTIFICE ALE UNIVERSITATII AL I CUZA
 DIN IASI-SERIE NOUA-MATEMATICA Volume: 54 Issue: 2 Pages: 233-252 Published:
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32. [EXISTENCE OF VECTOR EQUILIBRIA VIA EKELAND'S VARIATIONAL PRINCIPLE](#)
 Author(s): Araya Y, Kimura K, Tanaka T Source: TAIWANESE JOURNAL OF
 MATHEMATICS Volume: 12 Issue: 8 Special Issue: Sp. Iss. SI Pages: 1991-2000 Published:
 NOV 2008
33. [Some generalizations of Ekeland-type variational principle with applications to equilibrium problems and fixed point theory](#) Author(s): Al-Homidan S, Ansari QH, Yao JC Source:
 NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS Volume: 69 Issue: 1
 Pages: 126-139 Published: JUL 1 2008
34. [Vector-valued perturbed equilibrium problems](#) Author(s): Finet C, Quarta L Source:
 JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS Volume: 343
 Issue: 1 Pages: 531-545 Published: JUL 1 2008
35. [On maximal element theorems, variants of Ekeland's variational principle and their applications](#) Author(s): Lin LJ, Du WS Source: NONLINEAR ANALYSIS-THEORY
 METHODS & APPLICATIONS Volume: 68 Issue: 5 Pages: 1246-1262 Published: MAR 1
 2008
36. [Variational principles for set-valued mappings with applications to multiobjective optimization](#) Author(s): Bao TQ, Mordukhovich BS Source: CONTROL AND CYBERNETICS
 Volume: 36 Issue: 3 Pages: 531-562 Published: 2007
37. [Vectorial form of Ekeland-type variational principle with applications to vector equilibrium problems and fixed point theory](#) Author(s): Ansari QH Source: JOURNAL OF
 MATHEMATICAL ANALYSIS AND APPLICATIONS Volume: 334 Issue: 1 Pages: 561-
 575 Published: OCT 1 2007

Articolul

L.J. Lin, M. F. Yang, H.Q. Ansari and **G. Kassay**: *Existence Results for Stampacchia and Minty Type Implicit Variational Inequalities with Multivalued Maps*, **Nonlinear Analysis** **61**, pp. 1-19, 2005

Citat in :

38. [ON EQUILIBRIUM PROBLEMS AND EQUILIBRIUM PROBLEM SYSTEMS](#)
 Author(s): Beldiman M Source: PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES
 A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE
 Volume: 10 Issue: 3 Pages: 226-229 Published: SEP-DEC 2009
39. [On the existence of solutions to quasivariational inclusion problems](#)
 Author(s): Hai NX, Khanh PQ, Quan NH Source: JOURNAL OF GLOBAL OPTIMIZATION
 Volume: 45 Issue: 4 Pages: 565-581 Published: DEC 2009
 Times Cited: [2](#)

40. [System of vector quasi-variational inclusions with some applications](#)
Author(s): Lin LJ, Ansari QH, Huang YJ Source: NONLINEAR ANALYSIS-THEORY
METHODS & APPLICATIONS Volume: 69 Issue: 9 Pages: 2812-2824 Published: NOV 1
2008

41. [On the index of solvability for variational inequalities in banach spaces](#)
Author(s): Benedetti I, Obukhovskii V Source: SET-VALUED ANALYSIS Volume: 16 Issue: 1
Pages: 67-92 Published: MAR 2008

42. [Generalized vector quasi-equilibrium problems with applications to common fixed point theorems and optimization problems](#) Author(s): Lin LJ, Huang YJ Source: NONLINEAR
ANALYSIS-THEORY METHODS & APPLICATIONS Volume: 66 Issue: 6 Pages: 1275-
1289 Published: MAR 15 2007

2. Alte citări ale lucrărilor listate mai sus

3. Citări în perioada 2005-2009 ale articolelor anterioare anului 2005 (se va continua numerotarea de la 43.)

Articolul

J. B. G. Frenk, G. Kassay and J. Kolumbán: *On Equivalent Results in Minimax Theory*,
European Journal of Operational Research **157**, pp. 46-58, 2004

Citat in:

43. [Ergodic control of continuous-time Markov chains with pathwise constraints](#)
Author(s): Prieto-Rumeau T, Hernandez-Lerma O Source: SIAM JOURNAL ON CONTROL
AND OPTIMIZATION Volume: 47 Issue: 4 Pages: 1888-1908 Published: 2008

44. [Reference variable methods of solving min-max optimization problems](#)
Author(s): Lu BQ, Cao Y, Yuan MJ, et al. Source: JOURNAL OF GLOBAL OPTIMIZATION
Volume: 42 Issue: 1 Pages: 1-21 Published: SEP 2008

44. [Coordinating converging technologies: A survey of models from the field of multi-actor systems](#) Author(s): Van der Lei TE, Cunningham SW Conference Information: Conference of the
Portland-International-Center-for-Management-of-Engineering-and-Technology (PICMET
2007), AUG 05-09, 2007 Portland, OR Source: PICMET '07: PORTLAND INTERNATIONAL
CENTER FOR MANAGEMENT OF ENGINEERING AND TECHNOLOGY, VOLS 1-6,
PROCEEDINGS - MANAGEMENT OF CONVERGING TECHNOLOGIES Pages: 224-232
Published: 2007

45. [Potential theoretic approach to rendezvous numbers](#)
Author(s): Farkas B, Revesz SG Source: MONATSHEFTE FUR MATHEMATIK Volume: 148
Issue: 4 Pages: 309-331 Published: AUG 2006

46. [Rendezvous numbers of metric spaces - a potential theoretic approach](#)
Author(s): Farkas B, Revesz S Source: ARCHIV DER MATHEMATIK Volume: 86 Issue: 3

Pages: 268-281 Published: MAR 2006

Articolul

G. Kassay, J. Kolumbán and Zs. Páles: *Factorization of Minty and Stampacchia variational inequality systems*, **European Journal of Operational Research** **143**, pp. 377-389, 2002

Citat in:

47. [EXISTENCE AND BEHAVIOR OF SOLUTIONS FOR VARIATIONAL INEQUALITIES OVER PRODUCTS OF SETS](#) Author(s): Inoan D Conference Information: Conference on Mathematical Inequalities and Applications held in honor of Josip Pecaric, JUN 08-14, 2008 Trogir, CROATIA Source: MATHEMATICAL INEQUALITIES & APPLICATIONS Volume: 12 Issue: 4 Pages: 753-762 Published: OCT 2009

48. [ON EQUILIBRIUM PROBLEMS AND EQUILIBRIUM PROBLEM SYSTEMS](#) Author(s): Beldiman M Source: PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE Volume: 10 Issue: 3 Pages: 226-229 Published: SEP-DEC 2009

49. [An existence result for a system of inclusion problems with applications](#) Author(s): Kim JK, Fang YP, Huang NJ Source: APPLIED MATHEMATICS LETTERS Volume: 21 Issue: 11 Pages: 1209-1214 Published: NOV 2008

50. [New approach to solving a system of variational inequalities and hierarchical problems](#) Author(s): Mainge PE Source: JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS Volume: 138 Issue: 3 Pages: 459-477 Published: SEP 2008

51. [A new system of generalized nonlinear mixed variational inequalities](#) Author(s): Peng JW, Luo HL Source: MATHEMATICAL INEQUALITIES & APPLICATIONS Volume: 11 Issue: 2 Pages: 355-369 Published: APR 2008

52. [A system of variational inclusions with P-eta-accretive operators](#) Author(s): Peng HW, Zhu DL Source: JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS Volume: 216 Issue: 1 Pages: 198-209 Published: JUN 15 2008

53. [On a new system of generalized mixed quasi-variational-like inclusions with \(H, eta\)-accretive operators in real q-uniformly smooth Banach spaces](#) Author(s): Peng JW Source: NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS Volume: 68 Issue: 4 Pages: 981-993 Published: FEB 15 2008

54. [Three-step iterative algorithm for a system of set-valued variational inclusions with \(H,eta\)-monotone operators](#) Author(s): Peng HW, Zhu DL Source: NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS Volume: 68 Issue: 1 Pages: 139-153 Published: JAN 1 2008

55. [The existence and uniqueness of solution and the convergence of a multi-step iterative algorithm for a system of variational inclusions with \(A, eta, m\)-accretive operators](#) Author(s): Peng W Source: JOURNAL OF GLOBAL OPTIMIZATION Volume: 39 Issue: 3 Pages: 441-457 Published: NOV 2007

56. [Existence of solutions and convergence of a multistep iterative algorithm for a system of variational inclusions with \(H,eta\)-accretive operators](#)

Author(s): Peng JW, Zhu DL, Zheng XP Source: FIXED POINT THEORY AND APPLICATIONS Article Number: 93678 Published: 2007

57. [Nonlinear \(a,eta\)-monotone operator inclusion systems involving non-monotone set-valued mappings](#) Author(s): Lan HY, Kang JI, Cho YJ Conference Information: International Symposium on Nonlinear Analysis and Convex Analysis, OCT 27-29, 2006 Natl Sun Yat-sen Univ, Coll Sci, Kaohsiung, TAIWAN Source: TAIWANESE JOURNAL OF MATHEMATICS Volume: 11 Issue: 3 Pages: 683-701 Published: AUG 2007

58. [Existence results for systems of vector variational-like inequalities](#) Author(s): Zhao Y, Xia ZQ Source: NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS Volume: 8 Issue: 5 Pages: 1370-1378 Published: DEC 2007

59. [The p-step iterative algorithm for a system of generalized mixed quasi-variational inclusions with \(H, eta\)-monotone operators](#) Author(s): Peng JW, Zhu DL Source: JOURNAL OF GLOBAL OPTIMIZATION Volume: 38 Issue: 3 Pages: 387-403 Published: JUL 2007

60. [Existence of solutions and convergence of iterative algorithms for a system of generalized nonlinear mixed quasi-variational inclusions](#) Author(s): Peng JW, Zhu DL Source: COMPUTERS & MATHEMATICS WITH APPLICATIONS Volume: 53 Issue: 5 Pages: 693-705 Published: MAR 2007

61. [A new system of generalized mixed quasi-variational inclusions with \(H,eta\)-monotone operators](#) Author(s): Peng JW, Zhu DL Source: JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS Volume: 327 Issue: 1 Pages: 175-187 Published: MAR 1 2007

62. [On a new system of nonlinear A-monotone multivalued variational inclusions](#) Author(s): Lan HY, Kim JH, Cho YJ Source: JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS Volume: 327 Issue: 1 Pages: 481-493 Published: MAR 1 2007

63. [A new system of variational inclusions with \(H,eta\)-monotone operators](#) Author(s): Peng JW, Huang JR Source: BULLETIN OF THE AUSTRALIAN MATHEMATICAL SOCIETY Volume: 74 Issue: 2 Pages: 301-319 Published: OCT 2006

64. [A new system of generalized nonlinear relaxed cocoercive variational inequalities](#) Author(s): Ding K, Yan WY, Huang NJ Source: JOURNAL OF INEQUALITIES AND APPLICATIONS Article Number: 40591 Published: 2006

65. [Existence results for systems of vector equilibrium problems](#) Author(s): Fang YP, Huang NJ, Kim JK Source: JOURNAL OF GLOBAL OPTIMIZATION Volume: 35 Issue: 1 Pages: 71-83 Published: MAY 2006

66. [Iterative algorithm for a system of variational inclusions involving H-accretive operators in Banach spaces](#) Author(s): Fang YP, Huang NJ Source: ACTA MATHEMATICA HUNGARICA Volume: 108 Issue: 3 Pages: 183-195 Published: AUG 2005

67. [System of generalized vector variational inequalities](#) Author(s): Fang YP, Huang NJ Source: ACTA MATHEMATICA SCIENTIA Volume: 25 Issue: 4 Pages: 587-593 Published: OCT 2005

68. [A new system of set-valued variational inclusions with H-monotone operators](#) Author(s): Yan WY, Fang YP, Huang NJ Source: MATHEMATICAL INEQUALITIES &

69. [Mann iterative algorithm for a system of operator inclusions](#)

Author(s): Fang YP, Huang NJ Source: PUBLICATIONES MATHEMATICAE-DEBRECEN
Volume: 66 Issue: 1-2 Pages: 63-74 Published: JAN 2005

70 [A new system of variational inclusions with \(H,eta\)-monotone operators in hilbert spaces](#)

Author(s): Fang YP, Huang NJ, Thompson HB Source: COMPUTERS & MATHEMATICS
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72. [Generalizations of vector quasivariational inclusion problems with set-valued maps](#) Author(s): Sach P, Tuan L Source: JOURNAL OF GLOBAL OPTIMIZATION Volume: 43 Issue: 1 Pages: 23-45 Published: JAN 2009

73. [On a Class of Generalized Vector Quasiequilibrium Problems with Set-Valued Maps](#) Author(s): Sach PH Source: JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS Volume: 139 Issue: 2 Pages: 337-350 Published: NOV 2008

74. [Coincidence and maximal element theorems and their applications to generalized equilibrium problems and minimax inequalities](#) Author(s): Balaj M Source: NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS Volume: 68 Issue: 12 Pages: 3962-3971 Published: JUN 12 2008

75. [Systems of equilibrium problems with applications to new variants of Ekeland's variational principle, fixed point theorems and parametric optimization problems](#) Author(s): Lin LJ, Du WS Conference Information: 1st International Conference on Complementarity, Duality, and Global Optimization, AUG 15-17, 2005 Virginia Tech, Blacksburg, VA Source: JOURNAL OF GLOBAL OPTIMIZATION Volume: 40 Issue: 4 Pages: 663-677 Published: APR 2008

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77. [Systems of set-valued quasivariational inclusion problems](#) Author(s): Hai NX, Khanh PQ Source: JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS Volume: 135 Issue: 1 Pages: 55-67 Published: OCT 2007

78. [On the stability of the solution sets of general multivalued vector quasiequilibrium problems](#) Author(s): Anh LQ, Khanh PQ Source: JOURNAL OF OPTIMIZATION THEORY AND

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80. [An intersection theorem with applications in minimax theory and equilibrium problem](#) Author(s): Balaj M Source: JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS Volume: 336 Issue: 1 Pages: 363-371 Published: DEC 1 2007

81. [Existence results for set-valued vector quasiequilibrium problems](#) Author(s): Sach PH, Tuan LA Source: JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS Volume: 133 Issue: 2 Pages: 229-240 Published: MAY 2007

82. [Existence of solutions to general quasiequilibrium problems and applications](#) Author(s): Hai NX, Khanh PQ Source: JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS Volume: 133 Issue: 3 Pages: 317-327 Published: JUN 2007

83. [System of generalized vector quasi-equilibrium problems on product FC-spaces](#) Author(s): Ding XP Source: ACTA MATHEMATICA SCIENTIA Volume: 27 Issue: 3 Pages: 522-534 Published: JUL 2007

84. [Generalized KKM type theorems in FC-spaces with applications \(II\)](#) Author(s): Ding XP Source: JOURNAL OF GLOBAL OPTIMIZATION Volume: 38 Issue: 3 Pages: 367-385 Published: JUL 2007

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87. [System of generalized vector quasi-equilibrium problems in locally FC-spaces](#) Author(s): Ding XP Source: ACTA MATHEMATICA SINICA-ENGLISH SERIES Volume: 22 Issue: 5 Pages: 1529-1538 Published: SEP 2006

88. [The system of generalized set-valued equilibrium problems](#) Author(s): Peng JW Source: JOURNAL OF INEQUALITIES AND APPLICATIONS Article Number: 16764 Published: 2006

89. [Generalized vector quasi-variational-like inequalities](#) Author(s): Peng JW, Yang XM Source: JOURNAL OF INEQUALITIES AND APPLICATIONS Article Number: 59387 Published: 2006

90. [On the existence of solutions of quasi-equilibrium problems with constraints](#) Author(s): Minh NB, Tan NX Source: MATHEMATICAL METHODS OF OPERATIONS RESEARCH Volume: 64 Issue: 1 Pages: 17-31 Published: AUG 2006

91. [Stability for parametric implicit vector equilibrium problems](#) Author(s): Huang NJ, Li J, Thompson HB Source: MATHEMATICAL AND COMPUTER MODELLING Volume: 43 Issue: 11-12 Pages: 1267-1274 Published: JUN 2006
92. [Existence results for systems of vector equilibrium problems](#) Author(s): Fang YP, Huang NJ, Kim JK Source: JOURNAL OF GLOBAL OPTIMIZATION Volume: 35 Issue: 1 Pages: 71-83 Published: MAY 2006
93. [System of generalized vector quasi-equilibrium problems with applications to fixed point theorems for a family of nonexpansive multivalued mappings](#) Author(s): Lin LJ Source: JOURNAL OF GLOBAL OPTIMIZATION Volume: 34 Issue: 1 Pages: 15-32 Published: JAN 2006
94. [Existence results for primal and dual generalized vector equilibrium problems with applications to generalized semi-infinite programming](#) Author(s): Lin LJ Source: JOURNAL OF GLOBAL OPTIMIZATION Volume: 33 Issue: 4 Pages: 579-595 Published: DEC 2005
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97. [The study of KKM theorems with applications to vector equilibrium problems and implicit vector variational inequalities problems](#) Author(s): Lin LJ, Chen HL Source: JOURNAL OF GLOBAL OPTIMIZATION Volume: 32 Issue: 1 Pages: 135-157 Published: MAY 2005
98. [Generalized vector equilibrium problems for pseudomonotone multivalued bifunctions](#) Author(s): Fakhar M, Zafarani J Source: JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS Volume: 126 Issue: 1 Pages: 109-124 Published: JUL 2005
99. [Equilibrium problems in the quasimonotone case](#) Author(s): Fakhar M, Zafarani J Source: JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS Volume: 126 Issue: 1 Pages: 125-136 Published: JUL 2005
100. [Generalized vector quasi-equilibrium problems in locally G-convex spaces](#) Author(s): Ding XP Source: APPLIED MATHEMATICS AND MECHANICS-ENGLISH EDITION Volume: 26 Issue: 5 Pages: 563-570 Published: MAY 2005

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Author(s): Khanh PQ, Luu LM Source: JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS Volume: 133 Issue: 3 Pages: 329-339 Published: JUN 2007

104. [On nonlinear parametric variational inequalities](#)

Author(s): Bogdan M, Kolumban J Source: NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS Volume: 67 Issue: 7 Pages: 2272-2282 Published: OCT 1 2007

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Author(s): Khanh PQ, Luu LM Source: JOURNAL OF GLOBAL OPTIMIZATION Volume: 32 Issue: 4 Pages: 569-580 Published: AUG 2005

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106. [Variational convergence of a new proximal algorithm for nonlinear general A-monotone operator equation systems in Banach spaces](#)

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Author(s): Zou YZ, Huang NJ Source: APPLIED MATHEMATICS AND COMPUTATION Volume: 212 Issue: 1 Pages: 135-144 Published: JUN 1 2009

109. [An existence result for a system of inclusion problems with applications](#)

Author(s): Kim JK, Fang YP, Huang NJ Source: APPLIED MATHEMATICS LETTERS Volume: 21 Issue: 11 Pages: 1209-1214 Published: NOV 2008

110. [New approach to solving a system of variational inequalities and hierarchical problems](#)
 Author(s): Mainge PE Source: JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS Volume: 138 Issue: 3 Pages: 459-477 Published: SEP 2008
111. [Stability of iterative processes with errors for a system of nonlinear \(A, eta\)-accretive variational inclusions in Banach spaces](#) Author(s): Lan HY Source: COMPUTERS & MATHEMATICS WITH APPLICATIONS Volume: 56 Issue: 1 Pages: 290-303 Published: JUL 2008
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113. [Existence of solutions and convergence of a multistep iterative algorithm for a system of variational inclusions with \(H,eta\)-accretive operators](#) Author(s): Peng JW, Zhu DL, Zheng XP Source: FIXED POINT THEORY AND APPLICATIONS Article Number: 93678 Published: 2007
114. [Nonlinear \(a,eta\)-monotone operator inclusion systems involving non-monotone set-valued mappings](#) Author(s): Lan HY, Kang JI, Cho YJ Conference Information: International Symposium on Nonlinear Analysis and Convex Analysis, OCT 27-29, 2006 Natl Sun Yat-sen Univ, Coll Sci, Kaohsiung, TAIWAN Source: TAIWANESE JOURNAL OF MATHEMATICS Volume: 11 Issue: 3 Pages: 683-701 Published: AUG 2007
115. [Existence results for systems of vector variational-like inequalities](#) Author(s): Zhao Y, Xia ZQ Source: NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS Volume: 8 Issue: 5 Pages: 1370-1378 Published: DEC 2007
116. [Auxiliary problems and algorithm for a system of generalized variational-like inequality problems](#) Author(s): Kazmi KR, Khan FA Source: APPLIED MATHEMATICS AND COMPUTATION Volume: 187 Issue: 2 Pages: 789-796 Published: APR 15 2007
117. [Iterative approximation of a unique solution of a system of variational-like inclusions in real q-uniformly smooth Banach spaces](#) Author(s): Kazmi KR, Khan FA Source: NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS Volume: 67 Issue: 3 Pages: 917-929 Published: AUG 1 2007
118. [A stable iteration procedure for relaxed cocoercive variational inclusion systems based on \(A,eta\)-monotone operators](#) Author(s): Lan H Source: JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS Volume: 9 Issue: 2 Pages: 147-157 Published: APR 2007
119. [On a new system of nonlinear A-monotone multivalued variational inclusions](#)
 Author(s): Lan HY, Kim JH, Cho YJ Source: JOURNAL OF MATHEMATICAL

120. [A new system of generalized nonlinear relaxed cocoercive variational inequalities](#)
Author(s): Ding K, Yan WY, Huang NJ Source: JOURNAL OF INEQUALITIES AND
APPLICATIONS Article Number: 40591 Published: 2006
121. [Existence results for systems of vector equilibrium problems](#) Author(s): Fang YP, Huang
NJ, Kim JK Source: JOURNAL OF GLOBAL OPTIMIZATION Volume: 35 Issue: 1
Pages: 71-83 Published: MAY 2006
122. [Iterative algorithm for a system of variational inclusions involving H-accretive operators
in Banach spaces](#) Author(s): Fang YP, Huang NJ Source: ACTA MATHEMATICA
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123. [System of generalized vector variational inequalities](#) Author(s): Fang YP, Huang NJ
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Author(s): Yan WY, Fang YP, Huang NJ Source: MATHEMATICAL INEQUALITIES
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125. [Mann iterative algorithm for a system of operator inclusions](#) Author(s): Fang YP, Huang
NJ Source: PUBLICATIONES MATHEMATICAE-DEBRECEN Volume: 66 Issue: 1-
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126. [A new system of variational inclusions with \(H, \$\eta\$ \)-monotone operators in hilbert spaces](#)
Author(s): Fang YP, Huang NJ, Thompson HB Source: COMPUTERS &
MATHEMATICS WITH APPLICATIONS Volume: 49 Issue: 2-3 Pages: 365-374
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137. [A new system of variational inclusions with \(H,eta\)-monotone operators](#) Author(s): Peng JW, Huang JR Source: BULLETIN OF THE AUSTRALIAN MATHEMATICAL SOCIETY Volume: 74 Issue: 2 Pages: 301-319 Published: OCT 2006
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Author(s): Fang YP, Huang NJ Source: PUBLICATIONES MATHEMATICAE-DEBRECEN
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141. [Saddle Point and Duality for Vector Optimization with Generalized Convexity](#)

Author(s): Xu SL, Jiang J Conference Information: 5th International Conference on Fuzzy Systems and Knowledge Discovery, OCT 18-20, 2008 Jinan, PEOPLES R CHINA Source: FIFTH INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS AND KNOWLEDGE DISCOVERY, VOL 1, PROCEEDINGS Pages: 635-638 Published: 2008

142. [Separation of sets and Wolfe duality](#)

Author(s): Giannessi F, Mastroeni G Source: JOURNAL OF GLOBAL OPTIMIZATION Volume: 42 Issue: 3 Pages: 401-412 Published: NOV 2008

143. [New constraint qualification and conjugate duality for composed convex optimization problems](#)

Author(s): Bot RI, Grad SM, Wanka G Source: JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS Volume: 135 Issue: 2 Pages: 241-255 Published: NOV 2007

144. [Conjugate duality for generalized convex optimization problems](#)

Author(s): Dhara A, Mehra A Source: JOURNAL OF INDUSTRIAL AND MANAGEMENT OPTIMIZATION Volume: 3 Issue: 3 Pages: 415-427 Published: AUG 2007

145. [A general approach for studying duality in multiobjective optimization](#)

Author(s): Bot RI, Grad SM, Wanka G Source: MATHEMATICAL METHODS OF OPERATIONS RESEARCH Volume: 65 Issue: 3 Pages: 417-444 Published: JUN 2007

146. [On approximate efficiency in multiobjective programming](#)

Author(s): Gutierrez C, Jimenez B, Novo V Source: MATHEMATICAL METHODS OF OPERATIONS RESEARCH Volume: 64 Issue: 1 Pages: 165-185 Published: AUG 2006

147. [Duality in fractional programming problems with set constraints](#)

Author(s): Cambini R, Carosi L, Schaible S Conference Information: 7th International Symposium on Generalized Convexity and Generalized Monotonicity, AUG 27-31, 2002 Hanoi, VIETNAM Source: GENERALIZED CONVEXITY, GENERALIZED MONOTONICITY AND APPLICATIONS Book Series: NONCONVEX OPTIMIZATION AND ITS APPLICATIONS Volume: 77 Pages: 147-159 Published: 2005

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T. Illés and **G. Kassay**: *Theorems of the alternative and optimality conditions for convexlike and general convexlike programming*, **Journal of Optimization Theory and Applications** **101**, pp. 243-257, 1999

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149. [Sufficient conditions for nonsmooth r-invexity](#) Author(s): Soleimani-Damaneh M, Sarabi ME Source: NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION Volume: 29 Issue: 5-6 Pages: 674-686 Published: MAY-JUN 2008

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151. [Some applications of variational inequalities in nonsmooth analysis](#) Author(s): Jin CY, Cheng CZ Source: NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS Volume: 66 Issue: 8 Pages: 1728-1738 Published: APR 15 2007

152. [Equilibria and fixed points of set-valued maps with nonconvex and noncompact domains and ranges](#) Author(s): Wlodarczyk K, Klim D Source: NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS Volume: 65 Issue: 4 Pages: 918-932 Published: AUG 15 2006

4. Distincții, premii și alte recunoașteri naționale și internaționale

Premiul pentru Excelenta Stiintifica al UBB, 2006

5. Studenți naționali atrași (activități de coordonare științifică și didactică)

- Îndrumare lucrari de licență (număr lucrări susținute) : 3
- Îndrumare lucrări de disertație (număr lucrări susținute) : 7

In ultimii 5 ani subsemnatul a îndrumat proiectele de cercetare pentru fiecare student masterand in grupa de Matematica Computationala (7-9 studenti in medie pe an).

- Doctoranzi (lista nominală a doctoranzilor înmatriculați resp. lista nominală a tezelor susținute) :

1. **Mosoni Boglarka**, doctorand cu frecventa si bursa inmatriculata in octombrie 2008 ;
2. **Laszlo Szilard**, doctorand cu frecventa si bursa inmatriculat in octombrie 2008

- Post-doctoranzi (lista nominală)

6. Studenți internaționali atrați (activități de coordonare științifică și didactică)

1. **Leendert Kok**, student la universitatea Twente Enschede (Olanda) a fost atras de subsemnatul la facultatea noastră pentru semestrul II al anului universitar 2004-2005. El a urmat cursurile masterale ale subsemnatului de Teoria Jocurilor în primăvara anului 2005, a scris și susținut o disertație sub îndrumarea subsemnatului.

2. **Maximilian Himsel**, student al universității din Wuerzburg (Germania) a urmat cursurile subsemnatului de Teoria Jocurilor în semestrul II al anului universitar 2007-2008 și a scris un proiect sub îndrumarea lui.

- Îndrumare lucrări de licență (număr lucrări susținute)
- Îndrumare lucrări de disertație (număr lucrări susținute) : 1 (Leendert Kok)
- Doctoranzi (lista nominală a doctoranzilor înmatriculați resp. lista nominală a tezelor susținute)
- Post-doctoranzi (lista nominală)

7. Membru în comitetul de redacție la reviste ISI

8. Membru în comitetul de redacție la reviste BDI

membru în comitetul de redacție al revistelor *Advances in Nonlinear Variational Inequalities* (revistă BDI, USA) și *Mathematica* din Cluj

9. Participări la programe/granturi de cercetare finanțate din sursă internațională (se menționează și valoarea)

10. Participări la programe/granturi finanțate din sursă națională (se menționează și valoarea)

PN II, IDEI_2261/2008 (director Popovici Nicolae), suma câștigată : 992.243 RON , virată în contul UBB până în 2009 inclusiv: 46369 RON

<http://www.cnscis.ro/UserFiles/File/proiecte%20proapse%20spre%20finantare/matematica.pdf>

11. Coordonări de programe/granturi finanțate din sursă internațională (se menționează și valoarea)

12. Coordonări de programe/granturi finanțate din sursă națională (se menționează și valoarea)

Director al proiectului : PN II, IDEI_523/2007, suma câștigată : 800280 RON, virată în contul UBB până în 2009 inclusiv, plus acordată 2010: 671065.29 RON

http://www.cnscis.ro/userfiles/file/PN%202%20Idei%20Competitie%202007/REZULTATE%20EVALUARE%20ANULA%202010/comisia%201_1A_2007.pdf

13. Profesor invitat la universități de prestigiu, cu titlu oficial:

1. 2005, decembrie: Universitatea Eotvos Lorand, Budapesta
- 2-3. 2005, aprilie: Universitatea Catolică și Universitatea Bicocca din Milano, Italia
- 4-5. 2006, februarie: Universitatea Catolică și Universitatea Bicocca din Milano, Italia
6. 2006, mai: Universitatea din Haifa, Israel

7. 2006, mai: Universitatea din Copenhaga, Danemarca
8. 2006, septembrie: Eastern Mediterranean University, Famagusta, Ciprul de Nord
9. 2006, noiembrie-decembrie: Universitatea Tehnică Chemnitz, Germania
- 10-11. 2007, martie și mai: Universitatea Catolică și Universitatea Bicocca din Milano, Italia
12. 2007, martie: Universitatea din Pisa, Italia
13. 2007, septembrie: Universitatea din Haifa, Israel
14. 2007, decembrie: Universitatea Tehnică Chemnitz, Germania
15. 2008, iunie: Eastern Mediterranean University, Famagusta, Ciprul de Nord
16. 2008, iulie-august: Institutul de Matematica Pură și Aplicată (IMPA) Rio de Janeiro, Brazilia
17. 2008, iulie-august: Universitatea din Campinas, Brazilia
18. 2008, august: Institutul de Matematică și Științe Aplicative (IMCA) Lima, Peru
19. 2009, mai: Universitatea Strathclyde, Glasgow, Scoția
20. 2009, iunie: Eastern Mediterranean University, Famagusta, Ciprul de Nord

14. Membru în comisii profesionale relevante, cu titlu oficial

15. Conferințe invitate internaționale

1. 4th Twente workshop on Cooperative Game Theory joint with 3rd Dutch-Russian symposium, Enschede, Olanda, iunie 2005: expunere plenară invitata
<http://wwwhome.math.utwente.nl/~driessentsh/workshop2005>
2. Workshop on well-posedness, Milano, Italy, mai 2007: expunere plenară invitata (invitație pentru plenară – atasată)
3. International Conference on Optimization and Optimal Control, Ulaanbaatar, Mongolia, iulie 2007: expunere plenară invitata
<http://www.ise.ufl.edu/cao/cooc2007>
4. The 2nd International Conference on Nonlinear Analysis and Optimization, Isfahan, Iran, mai 2009, expunere plenară invitata
<http://www.sci.ui.ac.ir/~naop2009>

16. Membru în comitete de organizare sau științifice ale unor conferințe internaționale

1. 7th Joint Conference on Mathematics and Informatics iulie 2008 (Cluj Napoca), președintele Comitetului de Organizare
2. Conferința internațională „In Memoriam Gyula Farkas”, august 2005 (Cluj Napoca), membru in comitetul de organizare

III. Realizare remarcabilă

(Descrieți într-o manieră cât mai accesibilă (în maximum 1 pagină) cea mai importantă realizare științifică/tehnică/artistică din ultimii 5 ani și impactul acesteia.)

Consider drept cea mai importanta realizare stiintifica al ultimilor 5 ani (cu impact considerabil) rezultatele obtinute in extinderea principiului variational al lui Ekeland pentru probleme de echilibru.

Dupa cum se cunoaste din teorema lui Weierstrass, functiile inferior semicontinue poseda puncte de minim pe orice compact. In teoria optimizarii insa, majoritatea modelelor matematice provenite din practica nu verifica ipoteza de compactitate a multimilor pe care se cauta minimul functiilor de scop. Compactitatea, la randul ei este o conditie destul de restrictiva chiar si in spatii finite dimensionale, datorita ipotezei de marginire. Principiul variational al lui Ekeland, publicat in 1974 a constituit punctul de plecare pentru o cercetare profunda, dinamica si moderna. In acest rezultat nu se presupune compactitatea multimii, iar pe de alta parte se asigura ca in anumite conditii o perturbare arbitrar de mica a functiei in cauza va duce la existenta a cel putin unui punct de minim. Acesta la randul implica faptul ca functiile inferior semicontinue poseda puncte aproximative de minim. Rezultatul, pe langa aplicatiile sale interesante are si o interpretare geometrica frumoasa.

Problema echilibrului, intens studiata de subsemnatul in ultimii 5 ani, contine cazuri particulare importante, printre care se numara si problemele de minimizare. Dat fiind faptul ca principiul variational al lui Ekeland se refera (asa cum s-a amintit mai sus) la probleme de minimizare, apare in mod natural intrebarea: poate fi acest principiu stabilit si pentru cazul mai general al problemei de echilibru? In caz afirmativ, in ce ipoteze? Ce aplicatii interesante poate sa aduca un astfel de rezultat? Subsemnatul a abordat aceste intrebari impreuna cu doi coautori din Italia (Monica Bianchi si Rita Pini), obtinand rezultate in doua lucrari (trecute si in lista de la Criteriul I, pct. 1):

- (a) Monica Bianchi, **Gábor Kassay** and Rita Pini: *Existence of equilibria via Ekeland's principle*, **Journal of Mathematical Analysis and Applications** **305** (2005), pp. 502-512. Factor de impact: 1.046 si
- (b) M. Bianchi, **G. Kassay** and R. Pini: *Ekeland's principle for vector equilibrium problems*, **Nonlinear Analysis** **66** (2007), pp. 1454-1464. Factor de impact: 1.295.

In lucrarea (a) s-au obtinut rezultate asupra problemei de echilibru – forma scalara. Dupa ce s-a demonstrat principiul variational al lui Ekeland pentru astfel de probleme (rezultatul extinde pe cel clasic), s-a obtinut ca aplicatie un rezultat de existenta pentru problema de echilibru pe multimii compacte dar fara ipoteze de convexitate pentru functia in cauza, fapt neintalnit pana la acel moment. Tot aici se arata existenta solutiilor aproximative – si in anumite ipoteze, exacte – pentru un sistem de probleme de echilibru – forme scalare.

Lucrarea (b) poate fi considerata ca o continuare a cercetarilor incepute in articolul (a). In ultimii ani, principiul lui Ekeland a fost studiat si extins pentru probleme de optimizare vectoriala de mai multi autori. Scopul principal al lucrarii (b) a fost obtinerea de rezultate de tip Ekeland pentru probleme de echilibru – forma vectoriala - care sa extinda atat rezultatele obtinute pentru problemele de optimizare vectoriala , cat si rezultatele proprii pentru problema de echilibru – forma scalara (cele din lucrarea (a)).

Ambele lucrari au fost prezentate atat de subsemnatul cat si de coautorii sai la numeroase conferinte internationale de prestigiu. Asa cum reiese din lista citarilor de mai sus, lucrarea (a) fost citata in 9 articole, pe cand lucrarea (b) in 7 articole.

Data: 15.03.2010

Semnătura:
Prof. dr. Gabor Kassay

Certific validitatea datelor prezentate

Sef de catedră,