

### *Lista lucrărilor publicate*

#### *a) Articole ISI*

1. R. I. Boț, A. E. Capătă, Existence results and gap functions for the generalized equilibrium problem with composed functions, *Nonlinear Analysis: Theory, Methods and Applications*, vol. 72 (2010), 316-324
2. A. Capătă, G. Kassay, B. Mosoni, On weak multifunction equilibrium Problems, in: R. S. Burachik, J. C. Yao (eds.), *Variational Analysis and Generalized Differentiation in Optimization and Control*, Springer Optimization and Its Applications, vol 47 (2010), 133-148
3. A. Capătă, Existence results for proper efficient solutions of vector equilibrium problems and applications, *Journal of Global Optimization*, vol 51 (2011), 657-675
4. A. Capătă, G. Kassay, On vector equilibrium problems and applications, *Taiwanese Journal of Mathematics*, vol 15 (2011), 365-380
5. A. Capătă, Optimality conditions for extended Ky Fan inequality with cone and affine constraints and their applications, *Journal of Optimization Theory and Applications*, 152 (2012), 661-674
6. G. Bigi, A. Capătă, G. Kassay, Existence results for vector equilibrium problems and their applications, *Optimization* 61 (2012), 567-583
7. A. Capătă, Optimality conditions for vector equilibrium problems and their applications, *Journal of Industrial Management and Optimization*, 9 (2013), 659-669
8. A.E. Capătă, Existence theorems for vector equilibrium problems via quasi-relative interior, *The Scientific World Journal*, 2013 (2013), ID 150130, 6 pages
- 9) A. Capătă, Optimality conditions conditions for strong vector equilibrium problems

under a weak constraint qualification, *Journal of Industrial Management and Optimization*, 11 (2015), 563-574.

10) A. Capătă, Optimality conditions for vector equilibrium problems with set-valued mappings and cone constraints, *Mathematica Slovaca*, 65 (2015), 683-696.

11) A. Capata, G. Kassay, Characterizations of vector equilibria subject to explicit constraints, *Minimax Theory and its Applications*, 1 (2016), 145-161.

12) A. Capata, Existence results for globally efficient solutions of vector equilibrium problems via a generalized KKM principle, *Acta Mathematica Scientia*, 37 (2017), 463-476.

#### ***b) Articole BDI***

1. A. E. Capătă, Existence results for Stampacchia and Minty type generalized variational inequality problems, *Annals of the Tiberiu Popoviciu Seminar, on Functional Equations, Approximation and Convexity* 7 (2009), 13-31

2. A. Capătă, Families of Henig dilating cones and proper efficiency in vector equilibrium problems, *Automation Computers and Applied Mathematics*, 19 (2010), 67-76

3. A. Capătă, Existence and generalized duality of strong vector equilibrium problems, *Acta Universitatis Sapientiae*, 4 (2012), 36-52

4. A. Capătă, An existence result for Henig globally efficient solutions of vector equilibrium problems, *Annals of the Tiberiu Popoviciu Seminar, on Functional Equations, Approximation and Convexity*, 10 (2012), 37-49

5. A.E. Capătă, The convergence of Henig efficient solutions net for vector equilibrium problems, *Annals of the Tiberiu Popoviciu Seminar, on Functional Equations, Approximation and Convexity*, 11 (2013), 3-13

### ***Comunicări științifice***

- 1) The 7-th Joint Conference on Mathematics and Computer Science Cluj, 3-6 July, 2008, On vector equilibrium problem and applications, Adela Capătă (speaker) and Gabor Kassay.
- 2) Forschungsseminar Optimierung und Approximation, Technische Universität Chemnitz, 12.11.2008, On vector equilibrium problems and applications, Adela Capătă (speaker) and Gabor Kassay.
- 3) The 33-rd International Congress of Teachers of Mathematics, Physics and IT, Budapest, 24-26 August 2009, On weak multifunction equilibrium problems, Adela Capătă, Gabor Kassay and Boglarka Mosoni (speaker).
- 4) Workshop on Vector Optimization and Multicriteria Games, Milano, 6-7 Mai 2010, On existence results for vector equilibrium problems with applications, Adela Capătă and Gabor Kassay (speaker).
- 5) The Thirteenth International Conference on Applied Mathematics and Computer Science, Cluj-Napoca, 26-28 August 2010, Families of Henig dilating cones and proper efficiency in vector equilibrium problems, Adela Capătă.
- 6) 10-th International Symposium on Generalized Convexity and Monotonicity, Cluj-Napoca, 22-27 August 2011, On vector equilibrium problems, Giancarlo Bigi, Adela Capătă (speaker) and Gabor Kassay.
- 7) 18.04.2013 Seminar cercetare UT Departament Matematica, Optimality conditions for equilibrium problems
- 8) The Fourteenth International Conference on Applied Mathematics and Computer Science, Cluj-Napoca, 29-31 August 2013, Optimality conditions for solutions of equilibrium problems, Adela Capătă.
- 10) 13.03.2014 Adela-Elisabeta Capătă, Seminar cercetare UBB Analiza si Optimizare On some optimality conditions for solutions of equilibrium problems
- 11) 09.10.2014 Adela-Elisabeta Capătă, Seminar cercetare UBB Analiza si Optimizare, On some existence results for strong vector equilibrium problems
- 12) The Fifteenth International Conference on Applied Mathematics and Computer Science, Cluj-Napoca, 4-7 July 2016, Characterizations of vector equilibria with explicit

constraints, Adela Capătă.

13) First Romanian Itinerant Seminar on Mathematical Analysis and its Applications (RISMAA), Cluj-Napoca, 20-21 April 2018, Existence results for vector equilibrium problems via a generalized KKM principle



**Lucrarea:** R.I. Bot, A. E. Capătă, *Existence results and gap functions for the generalized equilibrium problem with composed functions, Nonlinear Analysis: Theory, Methods and Applications, vol. 72 (2010), 316-324*

1) L Cioban, ER Csetnek - Central European Journal of Mathematics 11 (2013), 829-850, Revisiting the construction of gap functions for variational inequalities and equilibrium problems via conjugate duality

2) XK Sun, SJ Li – Applicable Analysis 92 (2013), 2182-2199, Gap functions for generalized vector equilibrium problems via conjugate duality and applications

**Lucrarea:** A. Capătă, G. Kassay, *On vector equilibrium problems and applications, Taiwanese Journal of Mathematics, vol 15 (2011), 365-380.*

1) CS Chuang, LJ Lin - Journal of Global Optimization 57 (2013), 828-841, Existence and uniqueness of solution for quasi-equilibrium problems and fixed point problems on complete metric spaces with applications

2) CS Chuang, LJ Lin - Journal of Global Optimization 57 (2013), 533-547, New existence theorems for quasi-equilibrium problems and a minimax theorem on complete metric spaces

3) QQ Song, Journal of Applied Mathematics, 2013, Article ID 218402 (2013), 6 pages, The existence and stability of solutions of vector-quasi equilibrium problems in topological order spaces

4) J Salamon, Publicationes Mathematicae Debrecen 83 (2013), 625-642, Sensitivity analysis of the solution map of parametric operator equilibrium problems

5) M Patriche, Taiwanese Journal of Mathematics 19 (2015), 253-277, New results on systems of generalized vector quasi-equilibrium problems

6) G Kassay, M Miholca, Journal of Global Optimization 63 (2015), 195-211, Existence results for vector equilibrium problems given by a sum of two functions

7) LQ Anh, DV Hien, Applications of Mathematics 61 (2016), 651-668, On well-posedness for parametric vector quasiequilibrium problems with moving cones

**Lucrarea:** G. Bigi, A. Capătă, G. Kassay, *Existence results for vector equilibrium problems and their applications, Optimization 61 (2012), 567-583*

1) Y Zhang, SJ Li - Minimax theorems for scalar set-valued mappings with nonconvex

- domains and applications, Journal of Global Optimization, 57 (2013), 1359-1373
- 2) K Sitthithakerngkiet, S Plubtieng, Fixed Point Theory and Applications, 2013-342, DOI:10.1186/1687-1812-2013-342, Existence theorems of an extension for generalized strong vector quasi-equilibrium problems
  - 3) T Chen, Abstract and Applied Analysis vol 2014, 5 pages, ID478486, Existence theorems and epsilon cone saddle points for vector-valued mappings
  - 4) J Salamon, Mathematical Communications 19 (2014) 581-587, On operator equilibrium problems
  - 5) N Popovici - Annals of Operations Research, A decomposition approach to vector equilibrium problems 251 (2017), 105-115.
  - 6) P Chaipunya, P Kumam, Applied General Topology, 16 (2015) 37-44, Nonself KKM maps and corresponding theorems in hadamard manifolds
  - 7) M Patriche, Taiwanese Journal of Mathematics 19 (2015), 253-277, New results on systems of generalized vector quasi-equilibrium problems
  - 8) G Kassay, M Miholca, Journal of Global Optimization 63 (2015), 195-211, Existence results for vector equilibrium problems given by a sum of two functions
  - 9) G Kassay, M Miholca, Journal of Optimization Theory and Applications 169 (2016), 424-442, Vector quasi-equilibrium problems for the sum of two multivalued mappings
  - 10) M Patriche, Optimization 65 (2016), 2135-2151, Existence of equilibrium for generalized games in choice form and applications
  - 11) M Patriche, Numerical Functional Analysis and optimization 38 (2017), 523-548, Applications of the KKM property to coincidence theorems, equilibrium problems, minimax inequalities and variational relation problems
  - 12) Y Zhang, SJ Li, Acta Mathematicae Applicatae Sinica 33 (2017), 193-200, Some minimax problems in lexicographic order
  - 13) N Popovici, Annals of Operations Research 251 (2017), 105-115, A decomposition approach to vector equilibrium problems

***Lucrarea: A. Capătă, Optimality conditions for extended Ky Fan inequality with cone and affine constraints and their applications, Journal of Optimization Theory and Applications, 152 (2012), 661-674***

1) RI Boț, ER Csetnek - Journal of Optimization Theory and Applications 153 (2012), 546-550, On Some Erroneous Statements in the Paper "Optimality Conditions for Extended Ky Fan Inequality with Cone and Affine Constraints and Their Applications" by A. Capătă. ...

2) D Kong, L Liu, Y Wu, Journal of Optimization Theory and Applications 173 (2017), 117-130, Isotonicity of the metric projection by Lorentz cone and variational inequalities

*Lucrarea: A. Capătă, Optimality conditions for vector equilibrium problems and their applications, Journal of Industrial Management and Optimization, 9 (2013), 659-669*

1) Y Feng, QS Qiu – Optimization Letters 8 (2014), 1931-1944, Optimality conditions for equilibrium problems with constraint in Banach spaces

*A. Capătă, Existence results for proper efficient solutions of vector equilibrium problems and applications, Journal of Global Optimization, vol 51 (2011), 657-675*

1) N Popovici - Annals of Operations Research, A decomposition approach to vector equilibrium problems, 251 (2017), 105-115.