

LIST OF PUBLICATIONS

Papers in ISI journals

1. **M. Beldiman**, *Generalized variational inequalities involving some types of relaxed Lipschitz and relaxed monotone operators*, Proc. Rom. Acad. Ser. A, 6, 115-119, 2005;
2. V. Preda, I.M. Stancu Minasian, **M. Beldiman**, A. Stancu, *Optimality and duality for multiobjective programming with generalized V-type I univexity and related n-set functions*, Proc. Rom. Acad. Ser. A, 6, 183-191, 2005;
3. **M. Beldiman**, V. Preda, *Some existence results for a class of relatively B-pseudomonotone variational inequalities over product of sets*, Proc. Rom. Acad. Ser. A, 8, 1-17, 2007;
4. R. Ciumara, **M. Beldiman**, *On weighted balanced loss function and estimation of the mean time to failure*, Bull. Math. Soc. Sci. 50, 305-315, 2007;
5. **M. Beldiman**, *Equilibrium problems with set-valued mappings in Banach spaces*, Nonlin. Anal. – Theor. Meth. Appl., 68, 3364-3371, 2008;
6. V. Preda, **M. Beldiman**, *A projection method for variational inequalities systems with μ -Lipschitz continuous mappings*, Math. Rep. 10, 97-103, 2008;
7. V. Preda, **M. Beldiman**, C. Baibarac, *Optimality conditions and higher-order duality for a nondifferentiable mathematical programming class*, Math. Rep. 10, 4, 375-393, 2008;
8. **M. Beldiman**, E. Panaitescu, L. Dogaru, *Approximate quasi efficient solutions in multiobjective optimization*, Bull. Math. Soc. Sci. 51, 109-121, 2008;
9. L. Munteanu, V. Chiroiu, D. Dumitriu, **M. Beldiman**, *On the characterization of auxetic composites*, Proc. Rom. Acad. Ser. A 9, 33-40, 2008;
10. **M. Beldiman**, *On weighted equilibrium problems*, Proc. Rom. Acad. Ser. A 9, 78-91, 2008;
11. V. Chiroiu, L. Munteanu, D. Dumitriu, **M. Beldiman**, C. Secara, *On the arhitecture of a new cellular elastic material*, Proc. Rom. Acad. Ser. A 9, 105-115, 2008;
12. P.P.Teodorescu, L. Munteanu, V. Chiroiu, D. Dumitriu, **M. Beldiman**, *On the application of Chebyshev polynomials to nanoropes twist*, Proc. Rom. Acad. Ser. A 9, 209-215, 2008;
13. V. Preda, I.M. Stancu Minasian, **M. Beldiman**, A. Stancu, *Generalized V- univexit type-I for multiobjective programming with n-set functions*, J. Global Optim., 44, 131-148, 2009;

14. **M. Beldiman**, *On equilibrium problems and equilibrium problem systems*, Proc. Rom. Acad. Ser. A, 10, 226-229, 2009;
15. I.M. Stancu Minasian, V. Preda, **M. Beldiman**, A. Stancu, *On Zalmai's semiparametric duality model for multiobjective fractional programming with n -set functions*, Proc. Rom. Acad. Ser. A 10, 133-168, 2009;
16. V. Preda, I. M. Stancu-Minasian, **M. Beldiman**, A. Stancu, *On a general duality model in multiobjective fractional programming with n -set functions*, Math. Comput. Model., 54, 490-496, 2011;
17. **M. Beldiman**, I. Boaca, G. Marinoschi, *Optimization of a singular flow in a porous medium*, Z. Angew. Math. Mech., 93, 9, 633 – 647, 2013
18. **M. Beldiman**, *Equilibrium problems over products sets*, Proc. Rom. Acad. Ser. A. 14, 276-281, 2013

Papers in other journals

19. M.Popa, M.Popa, **M. Beldiman**, *On generalized univexity-type nonlinear programming problems*, Ann. Univ. Buc. Ser. Math. 51, 77-86, 2002;
20. A.Batatorescu, **M. Beldiman**, *On a class of pre-variational inequalities*, Math. Rep. 5, 3, 211-218, 2003;
21. V. Preda, **M. Beldiman**, *A predictor-corrector algorithm for multivalued general equilibrium problems*, Rev. Roum. Math. Pures Appl. 49, 557-562, 2004;
22. V. Preda, **M. Beldiman**, *Optimality and duality for multiobjective programming involving n -set functions*, Revue Roum. Math. Pures Appl. 50, 301-314, 2005;
23. **M. Beldiman**, Alina Paraschiv, *On second order duality for nonlinear programming*, Math. Rep. 8, 1, 9-16, 2006;
24. **M. Beldiman**, *A predictor-corrector algorithm for a class of quasiequilibrium problems involving sigma-pseudomonotonicity and skew symmetry*, Rev. Roum. Math. Pures Appl. 51, 413-420, 2006;
25. **M. Beldiman**, *Weighted variational inequalities with set-valued mappings*, Rev. Roum. Math. Pures Appl. 52, 315-327, 2007;

26. A. Batatorescu, V. Preda, **M. Beldiman**, *On higher order duality for multiobjective programming involving generalized (F,ρ,γ,b) -convexity*, Math. Reports 59,161-174, 2007;
27. A. Batatorescu, V. Preda, **M. Beldiman**, *Higher order symmetric multiobjective duality involving generalized (F,ρ,γ,b) -convexity*, Rev. Roum. Math. Pures Appl. 52, 619-630, 2007;
28. V. Preda, **M. Beldiman**, *Some results and algorithms for a class of γ -invex equilibrium problems*, Rev. Roum. Math. Pures Appl. 53, 227-237, 2008;
29. V.Chiroiu, L.Munteanu, D.Dumitriu, **M. Beldiman**, *Bucklewaves in piezoelectrics with Cantor-like structure*, Int. Rev. Mech. Eng., 3, 122-133, 2008;
30. **M. Beldiman**, A. Paraschiv, O. Cojocaru *On multiobjective programming problems containing n - set functions*, Ann. Univ. Buc., Ser. Math., 57, 89-106, 2008;
31. V.Preda, **M. Beldiman**, *Higher order duality for a nondifferentiable programming problem. A converse duality theorem*, Int. J. Optim. Theory Appl., 1, 2009;
32. **M. Beldiman**, I. M. Stancu-Minasian, V. Preda, A. Stancu, A. Paraschiv, *On a semiparametric dual model of a program involving n -set functions and univexity*, Int. J. Comput. Sci., 3, 251-262, 2009;
33. **M. Beldiman**, *Some results on equilibrium problems*, Nonlin. Stud., 18, 639-645, 2011;
34. R. Duda, E. Patrascu, **M. Beldiman**, A.D. Halanay, *Predictive Significance of Histopathologic Parameters in the Outcome of Chronic Rhinosinusitis with Nasal Polyposis*, Therapeutics, Pharmacology and Clinical Toxicology, XX, 5-11, 2016;
35. V. Preda, **M. Beldiman** si A. Batatorescu, *On duality for nonsmooth Lipschitz optimization problems*, Yu. J. Op. Res. 19, 41-47, 2017;
36. A. Batatorescu, **M. Beldiman**, I. Antonescu, R. Ciumara, *Optimality and duality for a class of nondifferentiable minimax fractional programming problems*, Yu. J. Op. Res. 19, 49-61, 2017

Papers in conference proceedings

37. V. Preda, **M. Beldiman**, A. Batatorescu, *On variational-like inequalities with generalized monotone mappings*, Generalized Convexity and Related Fields, Eds. I. V. Konnov, D. T. Luc, A. M. Rubinov, Lect. Notes Econ. Math. 583, 415-433, Springer, 2007;
38. V. Preda, **M. Beldiman**, A. Batatorescu, *A modified predictor-corrector method for a class of equilibrium problems*, Proc. Appl. Math. Mech., 7, 2060023-2060024, 2007;

39. V. Preda, A. Batatorescu si **M. Beldiman**, *Nondifferentiable Minmax Fractional Programming with Square Root Terms*, Proceedings of the **7-th Balkan Conference on Operational Research**, 23-39, Bucuresti, 2007;
40. A. Batatorescu, **M. Beldiman**, V. Preda, *The construction of some classes of generalized V-univex type-I multiobjective programming problems*, ISI Proceedings of **The EUROPT OMS Meeting 2008, The 20th International Conference Continuous Optimization and Knowledge-Based Technologies (Eur OPT-2008)**; Gediminas Technical University Publishing House Technika, Vilnius; L. Sakalauskas, G. W. Weber, E. Zavadskas, 217-222, 2008;
41. **M. Beldiman**, V. Preda, R. Ciumara, *Note on WD-invexity and duality for continuous-time optimization problems*, IFAC Preprints (electronic), 2009

Books

42. **M. Beldiman**, *Equilibrium Problems on Topological Spaces*, Ed. Univ. Buc., 2008

Book Chapters

43. **M. Beldiman**, V. Preda, *Some classes of mathematical programs and variational inequalities with applications*, In: Research Trends in Mechanics, vol. 3, ed. D. Popa, V. Chiroiu, I. Toma, Ed. Academiei, 52-78, 2009;
44. **M. Beldiman**, L. Munteanu, M. Poienariu, *On the multifunctional nanofoils based on carbon nanotubes and auxetic foams*, Research Trends in Mechanics, vol. 4, ed. D. Popa, V. Chiroiu, I. Toma, Ed. Academiei, 9-24, 2010

LIST OF CONFERENCES

International conferences

- V. Preda, A. Batatorescu, **M. Beldiman**, *Nondifferentiable minmax fractional programming with square root terms*, **7th Balkan Conference on Operational Research**, May 2005, Constanța, Romania;
- V. Preda, **M. Beldiman**, A. Batatorescu, *On variational-like inequalities with generalized monotone mappings*, **8th Symposium of Generalized Convexity and Monotonicity**, July 2005, Varese, Italy;
- V. Preda, I.M. Stancu Minasian, **M. Beldiman**, A. Stancu, *Optimality and general Mond-Weir duality for multiobjective programming problems with n - set function involving generalized V -type I univexity*, **8th Symposium of Generalized Convexity and Monotonicity**, July 2005, Varese, Italy;
- V. Preda, R. Ciumara, **M. Beldiman**, *On weighted balanced loss function and estimation of the mean time to failure*, **Colloque Franco - Roumain de Mathematiques Appliques**, August 2006, Chambéry, France;
- **M. Beldiman**, D. Stanciu, *On topological properties of solution set for a class of variational inequalities*, **6th Congress of Romanian Mathematicians**, June - July 2007, Bucharest, Romania;
- **M. Beldiman**, V. Preda, A. Batatorescu, *Some results for equilibrium problems systems*, **EUROPT OMS Meeting 2007** (2nd Conference on Optimization ;
- Methods & Software and 6th EUROPT Workshop on Advances in Continuum Optimization), July 2007, Prague, Czech Republic;
- **M. Beldiman**, A. Batatorescu, *An application of some algorithms for special classes of stochastic models*, **EUROXXII 2007** (22nd European Conference on Operational Research), July 2007, Prague, Czech Republic;
- V. Preda, **M. Beldiman**, A. Batatorescu, *A modified predictor-corrector method for a class of equilibrium problems*, **ICIAM 2007** (6th International Congress on Industrial and Applied Mathematics), July 2007, Zurich, Switzerland;
- A. Batatorescu, **M. Beldiman**, V. Preda, *The construction of some classes of generalized V -univex type-I multiobjective programming problems*, **EUROPT OMS Meeting 2008** (Continuous Optimization and Knowledge-Based-Technologies), May 2008, Neringa, Lithuania;

- **M. Beldiman**, V. Preda, *Equilibrium problems over products sets*, **ICCAM 2008** (International Congress of Computational and Applied Mathematics), July 2008, Ghent, Belgium;
- **M. Beldiman**, V. Preda, Roxana Ciumara, *Note on WD-invexity and duality for continuous-time optimization problems*, **CAO'09 - IFAC Workshop on Control Applications of Optimisation**, May 2009, Yvaskyla, Finland;
- **M. Beldiman**, D. Stanciu, *Necessary optimality conditions for vector variational inequalities*, **9th Balkan Conference on Operational Research**, September 2009, Constanta, Romania

National conferences

- A. Batatorescu, **M. Beldiman**, *Some results in multiobjective programming involving eta-semidifferentiable functions*, **5th SPSR Conference**, February 2002, ASE, Bucuresti;
- **M. Beldiman**, *On generalized nonlinear variational inequalities involving relaxed Lipschitz and relaxed monotone operators*, **8th SPSR Conference**, April 2005, Bucharest University;
- V. Preda, C. Niculescu, **M. Beldiman**, *On Wolfe second-order symmetric duality in nondifferentiable programming*, **9th SPSR Conference**, April 2006, Bucharest University;
- **M. Beldiman**, D. Stanciu, *Inegalitati variationale vectoriale si inegalitati variationale scalare asociate*, **10th SPSR Conference**, April 2007, ASE, Bucuresti;
- **M. Beldiman**, A. Ilie, *On optimality and duality in multiobjective programming problems*, **10th SPSR Conference**, April 2007, ASE, Bucuresti;
- **M. Beldiman**, D. Stanciu, *On pseudolinear programming problems and pseudoaffine variational inequalities*, **11th SPSR Conference**, April 2008, Bucharest University;
- A. Batatorescu, I. Antonescu, **M. Beldiman**, *Second -order duality for a class of nondifferentiable programming problems*, **12th SPSR Conference**, April 2009, Academia Navala Constanta

LIST OF CITATION IN ISI JOURNALS WITH IF>0,5

- The paper *Equilibrium problems with set-valued mappings in Banach spaces*, Nonlin. Anal. – Theor. Meth. Appl., 68, 3364-3371, 2008 is cited in the paper
 - *Monotone type operators in nonreflexive Banach spaces*, Fixed Point Theor. Appl., DOI:10.1186/1687-1812-2014-119, 2014 (authors Y. Chen, Y. J. Cho)
- The paper *On variational-like inequalities with generalized monotone mappings*, Generalized Convexity and Related Fields, Eds. I. V. Konnov, D. T. Luc, A. M. Rubinov, Lect. Notes Econ. Math. 583, 415-433, Springer, 2007 is cited in the papers
 - *On generalized variational-like inequalities with generalized monotone mappings*, Appl. Math. Lett. 22, 428-434, 2009 (authors L. C. Ceng, J. C. Yao);
 - *Upper semicontinuity of solutions set for a class of vector variational inequalities*, Proc. Rom. Acad. Ser. A, 14, 3, 193-197, 2013 (authors V. Preda, D. E. Stanciu);
 - *Existence results for trifunction equilibrium problems and fixed point problems*, Analysis and Mathematical Physics, 9(1), 323-347, 2019 (authors N. K. Mahato, M.A. Noor, N.K. Sahu);
 - *Hybrid projection method for a system of unrelated generalized mixed variational-like inequality problems*, Georgian Mathematical Journal 26(1), 63-78, 2019 (authors K.R. Kazmi, R. Ali);
 - *Common solution to a split equality monotone variational inclusion problem*, Fixed Point Theory, 20(1), 211-232, 2019 (authors K.R. Kazmi, R. Ali, M. Fourkan)
- The paper *Higher order symmetric multiobjective duality involving generalized (F,ρ,γ,b) -convexity*, Rev. Roum. Math. Pures Appl. 52, 6, 619-630, 2007 is cited in the papers
 - *A note on higher-order nondifferentiable symmetric duality in multiobjective programming*, Appl. Math. Lett., 24, 1308-1311, 2011 (autori R. P. Agarwal, I. Ahmad, S. K. Gupta);

- *Strong duality theorem for multiobjective higherorder nondifferentiable symmetric dual programs*, J. Ind. Manag. Optim., 9, 3, 525-530, 2013 (autor X. M. Yang)

- The paper *Approximate quasi efficient solutions in multiobjective optimization*, Bull. Math. Soc. Sci. 51(99), 109-121, 2008 is cited in the papers
 - *Nondifferentiable mathematical programs. Optimality and higher-order duality results*, Proc. Rom. Acad. Ser. A, 9(3), 179-183, 2008 (author V. Preda);
 - *On approximating weakly/properly efficient solutions in multi-objective programming* Math. Comput. Model. 57 (11), 3172-3181, 2011 (authors B. A. Ghaznavi – Ghosoni, E. Khorram);
 - *Optimality conditions for approximate solutions of vector optimization problems*, J. Ind. Manag. Optim., 7, 2, 483-496, 2011(authors Y. Gao, X. Yang, K. Teo);.
 - *Epsilon-Optimal Solutions in Nonconvex Semi-Infinite Programs with Support Functions*, Fixed Point Theor. Appl., doi:10.1155/2011/175327, 2011 (authors D. S. Kim, T.Q. Son);
 - *ϵ -Mixed type duality for nonconvex multiobjective programs with an infinite number of constraints*, J. Global Optim. 54, 1-9, 2012 (authors D. S. Kim, T. Q. Son);
 - *Existence and optimality conditions for approximate solutions to vector optimization problems*, J. Optim. Theory Appl. 152, 1, 97-120, 2012 (authors Y. Gao, S. H. Hou, X. M. Yang);
 - *A new notion of quasiefficiency in vector optimization*, Pacific J. Optim. 8, 2, 217-230, 2012 (authors D. Gupta, A. Mehra);
 - *Scalarization for characterization of approximate strong/weak/proper efficiency in multi-objective optimization*, Optimization, 62(6), 703-720, 2013 (authors B. A. Ghaznavi - Ghosoni, E. Khorram, M. Soleimani – Damaneh);
 - *A combined scalarizing method for multiobjective programming problems*, Eur. J. Op. Res., 236, 1, 229–237, 2014 (authors N. Rastegar, E. Khorram);
 - *Characterizing ϵ -properly efficient solution*, Optim. Meth. Software, DOI: 10.1080/10556788.2014.945448, 2014 (authors K. Khaledian, E. Khorram, B. Karimi);
 - *On approximate starshapedness in multiobjective optimization*, Optim. Meth. Software, 31(2), 290-304, 2015 (authors B. Al-Shamary, S.K. Mishra, V. Laha);

- *Optimality conditions via scalarization for approximate quasi efficiency in multiobjective optimization*, Filomat 31(3), 671-680, 2017 (author M.Ghaznavi);
 - *An algorithm for approximating nondominated points of convex multiobjective optimization problems*, Bull. Iranian Math. Soc. 43(5), 1399-1415, 2017 (authors M. Ghaznavi, Z. Azizi) ;
 - *An Approach to ϵ -duality Theorems for Nonconvex Semi-infinite Multiobjective Optimization Problems*, Taiwanese J. Math. 22(5), 1261-1287, 2018 (author T. Q. Son);
 - *Optimality conditions for ϵ -quasi solutions of optimization problems via ϵ -upper convexificators with applications*, Optim Lett. 13(4), 857-873, 2019 (author A. Capata);
 - *Optimality conditions for weakly ϵ -efficient solutions of vector optimization problems with applications*, Num. Funct. Annal. Opt. 40(6), 726-741, 2019 (author A. Capata);
 - *Optimality conditions via a unified direction approach for (approximate) efficiency in multiobjective optimization*, Optim. Meth. Software, <https://doi.org/10.1080/10556788.2019.1571589>, 2019 (authors M. Ghaznavi, F. Akbari, E. Khorram)
- The paper *Some existence results for a class of relatively B-pseudomonotone variational inequalities over product of sets*, Proc. Rom. Acad. Ser. A, 8(1), 1-17, 2007 is cited in the paper
 - *Quasi-variational inequality problems over product sets with quasi-monotone operators*, SIAM Journal on Optimization, 29(2), 1558-1577, 2019 (authors D. Aussel, K. Cao Van, D. Salas)
 - The paper *Generalized V- univexit type-I for multiobjective programming with n-set functions*, J. Global Optim., 44, 131-148, 2009 is cited in the papers
 - *Some nondifferentiable multiobjective programming under generalized d-V-type I univexity*, J. Comput. Appl. Math. 229, 1, 175-182, 2009 (authors A. Jayswal, R. Kumar);

- *On sufficiency and duality for a class of interval-valued programming problems*, Appl. Math. Comput. 218(8), 4119-4127, 2011 (authors A. Jayswal, I. M. Stancu-Minasian, I. Ahmad);
 - *On Sufficiency in Multiobjective Fractional Programming Problems*, J. Comput. Theor. Nanosci., 10, 12, 2943-2948, 2013 (authors A. N. Gang, X. Gao);
 - *Sufficiency and mixed type duality for multiobjective variational control problems involving α -V-univex functions*, Evolution Equations & Control Theory, 6(1), 2017, 93-109 (authors S. Sharma, S. Choudhury, A. Jayswal)
- The paper *Optimality and duality for multiobjective programming with generalized V-type I univexity and related n-set functions*, Proc. Rom. Acad. Ser. A, 6(3), 183-191, 2005 is cited in the paper
 - *Some nondifferentiable multiobjective programming under generalized d-V-type I univexity*, J. Comput. Appl. Math. 229, 1, 175-182, 2009 (authors A. Jayswal, R. Kumar)
 - The paper *On higher order duality for multiobjective programming involving generalized (F, ρ, γ, b) -convexity*, Math. Rep. 9(59), 2, 161-174, 2007 is cited in the paper
 - *Higher order duality in multiobjective programming with cone constraints*, Optimization 59, 1, 29-43, 2010 (authors D. S. Kim, H. S. Kang, Y. J. Lee, Y. Y. Seo);
 - *Higher-Order Duality Results for a New Class of NonconvexNonsmooth Multiobjective Programming Problems*, Filomat 33(6), 1619-1639, 2019 (authors T. Antczak, H. Slimani)
 - The paper *On the application of Chebyshev polynomials to nanoropes twist*, Proc. Rom. Acad. Ser. A 9(3), 209-215, 2008 is cited in the papers
 - *On the nano torsional pendulum*, Proc. Rom. Acad. Ser. A 10(2), 173-178, 2009 (authors P.P. Delsanto, V. Chiroiu, L. Munteanu, S. Donescu);

- *Application of Cosserat theory to the modelling of reinforced carbon nanotube beams*, Computer Materials and Continua 19, 1, 1-16, 2010 (authors V. Chiroiu, L. Munteanu, A. S. Glozzi)

- The paper *On the architecture of a new cellular elastic material*, Proc. Rom. Acad. Ser. A 9(2), 105-115, 2008 is cited in the paper
 - *On the Compression Viewed as a Geometric Transformation*, CMC: Computers, Materials & Continua, 31, 2, 127-146, 2012 (authors L. Munteanu; C. Brisan; V. Chiroiu; S. Donescu)

- *The paper On the characterization of auxetic composites*, Proc. Rom. Acad. Ser. A 9(1), 33-40, 2008 is cited in the paper
 - *On the Tactile Sensing Based on the Smart Materials*, CMC: Computers, Materials & Continua, 46, 2, 49-103, 2015 (authors L. Munteanu, D. Dumitriu, V. Chiroiu, C. Brisan, M. Bara, D. Marin)

- The paper *Bucklewaves in piezoelectrics with Cantor-like structure*, Int. Rev. Mech. Eng., 3, 2008 is cited in the paper
 - *On the feedforward control of hysteresis for a piezoelectric plate*, CMC: Computers, Materials & Continua, vol. 28, nr.1, 57-80, 2012 (authors L. Munteanu, V. Chiroiu)