



ROMÂNIA
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RECTORATUL

Universitatea Babeș-Bolyai Competiția Excelenței 2010

Dosar individual

Notă: Toate datele se referă la perioada 2005-2009

Nume, prenume, grad did.	PETRUSEL ADRIAN, PROF.DR.
Facultatea, Catedra	Matematica si Informatica, Catedra de Matematica Aplicata
Domeniul științific	Matematica
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Criteriaul I – Output

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

1. R. Espinola, A. Petrușel : Existence and data dependence of fixed points for multivalued operators on gauge spaces, J. Math. Anal. Appl., 309(2005), 420-432. Factor de impact: 1,046
2. A. Petrusel, Ioan A. Rus: Fixed point theorems in ordered L-spaces. Proc. Amer. Math. Soc., 134 (2006), no. 2, 411-418. Factor de impact: 0,584
3. L.-C. Ceng, A. Petrusel, J.-C. Yao: Strong convergence theorems of averaging iterations of nonexpansive nonself-mappings in Banach spaces, Fixed Point Theory, 8(2007), 219-236.
4. A. Petrusel, I.A. Rus, J.-C. Yao: Well-posedness in the generalized sense of the fixed point problems for multivalued operators, Taiwanese J. Math., 11(2007), 903-914. Factor de impact: 0,583
5. A. Petrusel, I. A. Rus: Fixed point theory of multivalued operators on a set with two metrics, Fixed Point Theory, 8(2007), 97-104.
6. A. Petrusel, J.-C. Yao: Viscosity approximation to common fixed points of families of nonexpansive mappings with generalized contractions mappings, Nonlinear Anal. T.M.A., 69(2008), 1100-1111. Factor de impact: 1,295
7. C. Chifu, A. Petrusel: Multivalued fractals and multivalued generalized contractions, Chaos, Solitons & Fractals, 36(2008), 203-210. Factor de impact: 2,980
8. T. Lazar, D. O'Regan, A. Petrusel: Fixed points and homotopy results for Ciric-type multivalued operators on a set with two metrics, Bull. Korean Math. Soc., 45(2008), 67-73.
9. A. Petrusel, I.A. Rus, M.A. Serban: Fibre Picard operators on gauge spaces and applications, Journal for Analysis and its Applications, 27 (2008), no.4, 399-415. Factor de impact: 0,828
10. Lu-Chuan Ceng, A. Petrusel, S.Y. Wu: On hybrid proximal-type algorithms in Banach spaces, Taiwanese J. Mathematics, 12 (2008), No. 8, 2009-2029. Factor de impact: 0,583

11. Lu-Chuan Ceng, A. Petrusel, J.-C. Yao: Weak convergence theorems by a modified extragradient method for nonexpansive mappings and monotone mappings, *Fixed Point Theory*, 9(2008), 73-87.
12. D. O'Regan, A. Petrusel, Leray-Schauder, Lefschetz and Krasnoselskii fixed point theory in Frechet spaces for general classes of Volterra operators, *Fixed Point Theory*, 9(2008), no.2, 497-513.
13. D. O'Regan, A. Petrusel: Fixed point theorems for generalized contractions in ordered metric spaces, *Journal of Mathematical Analysis and Applications*, 341(2008), 1241-1252. Factor de impact: 1,046
14. G. Petrusel, A. Petrusel: Multivalued contractions of Feng-Liu type in complete gauge spaces, *Carpathian J. Math.*, 24 (2008), No. 3, 392-396.
15. T. Lazăr, A. Petrușel, N. Shahzad: Fixed points for non-self operators and domain invariance theorems, *Nonlinear Analysis T.M.A.*, 70(2009), No. 1 (A), 117-125. Factor de impact: 1,295
16. Lu-Chuan Ceng, A. Petrusel, C. Lee, M.M. Wong: Two extragradient approximation methods for variational inequalities and fixed point problems of strict pseudo-contractions, *Taiwanese J. Math.*, 13(2009), no. 2A, 607-632. Factor de impact: 0,583
17. G. Mot, A. Petrusel: Fixed point theory for a new type of contractive multivalued operators, *Nonlinear Anal. T.M.A.*, 70 (2009) 3371-3377. Factor de impact: 1,295
18. A. Petrusel, J.-C. Yao: Viscosity Approximations by generalized contractions for resolvents of accretive operators in Banach spaces, *Acta Mathematica Sinica, English Series*, 25 (2009), No. 4, 553-564. Factor de impact: 0,543
19. L.C. Ceng, A. Petrusel, J.C. Yao: Iterative approaches to solving equilibrium problems and fixed point problems of infinitely many nonexpansive mappings, *J. Optim. Theory Appl.*, 143(2009), 37-58. Factor de impact: 0,860
20. E. Llorens-Fuster, A. Petrusel, J.-C. Yao: Iterated function systems and well-posedness, *Chaos, Solitons and Fractals*, 41 (2009) 1561-1568. Factor de impact: 2,980
21. A. Petrusel, J.-C. Yao: An extragradient iterative scheme by viscosity approximation methods for fixed point problems and variational inequality problems, *Central European Journal of Mathematics*, 7(2) (2009), 335-347.
22. Lu-Chuan Ceng, A. Petrusel, J.-C. Yao: Strong convergence of modified implicit iterative algorithms with perturbed mappings for continuous pseudocontractive mappings, *Applied Mathematics & Computation*, 209 (2009), 162-176. Factor de impact: 0,961
23. A. Bucur, L. Guran, A. Petrusel, Fixed points for multivalued operators on a set endowed with vector-valued metrics and applications, *Fixed Point Theory*, 10(2009), no.1, 19-34.
24. L.C. Ceng, S. Huang. A. Petrusel, Weak convergence theorem by a modified extragradient method for nonexpansive mappings and monotone mappings, *Taiwanese Journal of Mathematics*, 13(2009), no.1, 225-238. Factor de impact: 0,583

2. Articole științifice publicate în ISI proceedings

1. I.A. Rus, A. Petrusel, G. Petrusel: Fixed point theorems for set-valued Y-contractions, *Fixed Point Theory and its Applications (J. Jachymski and S. Reich (eds.)), Banach Center Publ.*, 77 (2007), 227-237.

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

1. A. Petrușel, G. Moț: Selection theorems for multivalued operators, *Annals of the Tiberiu Popoviciu Seminar on Functional Equations, Approximation and Convexity*, 3(2005), 151-156.

2. A. Petrusel, G. Petrusel: Selections theorems for multivalued generalized contractions, *Math. Moravica*, 9(2005), 43-52.
3. B. C. Dhage, A. Petrusel: The method of upper and lower solutions for perturbed n-th order differential inclusions, *Discuss. Math. Differ. Incl. Control Optim.*, 26(2006), 57-76.
4. A. Petrusel: Fixed points and integral inclusions, *Revue d'Analyse Numerique et de Theorie de l'Approximation*, 35(2006), 183-188.
5. I. A. Rus, A. Petrusel, M. A. Serban: Weakly Picard operators: equivalent definitions, applications and open problems, *Fixed Point Theory*, 7(2006), 3-22.
6. A. Petrusel, G. Petrusel, A note on multivalued Meir-Keeler type operators, *Studia Univ. Babeş-Bolyai, Math.*, 51(2006), no.4, 181-188.
7. G. Mot, A. Petrusel, Fractal operators for mixed iterated function system., *Ann. Tiberiu Popovici Semin. Funct, Equ. Approx. Convexity*, 4(2006), 91-100.
8. V. Berinde, A. Petrusel, Professor Ioan A. Rus on his 70th birthday: a complete scientist, an accomplished mathematician, *Fixed Point Theory*, 7(2006), no.2, 167-174.
9. Lu-Chuan Ceng, A. Petrusel, J.-C. Yao: Implicit Iteration Scheme with Perturbed mapping for common fixed points of a finite family of lipschitz pseudocontractive mappings, *J. Mathematical Inequalities*, 1(2007), 243-258.
10. R. Espinola, G. Lopez, A. Petrusel: Crossed Cartesian product of multivalued operators, *Nonlinear Funct. Anal. Appl.*, 12(2007), No. 4, 563-575.
11. D. O'Regan, A. Petrusel, T.P. Petru: Fixed point results for Ćirić type contractions on a set with two separating gauge structures, *Sci. Math. Jpn.*, 68(2008), no.3, 361-369.
12. A. Petruşel, I.A. Rus, M.A. Şerban: Fixed points for operators on generalized metric spaces, *Cubo* 10 (2008), no. 4, 45-66.
13. A. Petrusel, I. A. Rus: Mathematical contributions of Professor D.V. Ionescu, *Notices from the ISMS (Novae Scientiae Mathematicae)*, January 2008, 1-10, <http://www.jams.or.jp/notice/Notices0801.pdf>
14. L. Guran, A. Petruşel: Existence and data dependence for multivalued weakly Ćirić-contractive operators, *Acta Univ. Sapientiae Math.*, 1 (2009), no. 2, 151-159.

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

1. A. Petrusel, I. A. Rus: Well-posedness of the fixed point problem for multivalued operators, *Applied Analysis and Differential Equations* (O. Cârja and I. I. Vrabie (eds.)), World Scientific 2007, pp. 295-306.

5. Cărţi ştiinţifice publicate în edituri internaţionale: nu am

6. Cărţi ştiinţifice publicate în edituri naţionale acreditate

1. G. Mot, A. Petrusel, G. Petrusel: *Topics in Nonlinear Analysis and Applications to Mathematical Economics*, House of the Book of Science, Cluj-Napoca, 2007, 154 pp.
2. I. A. Rus, A. Petrusel, G. Petrusel: *Fixed Point Theory*, Cluj University Press, 2008, 515 pp,

7. Editor de volume publicate în edituri naţionale şi internaţionale: nu am

8. Brevete internaţionale: nu am

9. Brevete naționale: nu am

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)

Criteriul II – Prestigiu profesional

1. Citări ale articolelor ISI listate la Criteriul I

1. Petrusel A., Yao J.C., An extragradient iterative scheme by viscosity approximation methods for fixed point problems and variational inequality problems, *Central European Journal of Mathematics*, 7(2009), no. 2, 335-347.
 - Cholamjiak P., Suantai S., A New Hybrid Algorithm for Variational Inclusions, Generalized Equilibrium Problems, and a Finite Family of Quasi-Nonexpansive Mappings, *Fixed Point Theory and Applications*, 2009
2. Ceng L.C., Petrusel A., Lee C., et al., Two extragradient approximation methods for variational inequalities and fixed point problems of strict pseudo-contractions, *Taiwanese Journal of Mathematics*, 13(2009), no. 2A, 607-632.
 - Peng J.W., Yao J.C., Some new iterative algorithms for generalized mixed equilibrium problems with strict pseudo-contractions and monotone mappings, *Taiwanese Journal of Mathematics*, 13(2009), no. 5, 1537-1582.
3. Mot G., Petrusel A., Fixed point theory for a new type of contractive multivalued operators, *Nonlinear Analysis Theory Methods & Applications*, 70(2009), no. 9, 3371-3377.
 - Petru T.P., Fixed point theorems for Kikkawa-Suzuki type multivalued operators in gauge spaces, *Carpathian Journal of Mathematics*, 24(2008), no. 3, 386-391.
 - Dhompongsa S., Yingtaweessittikul H., Fixed Points for Multivalued Mappings and the Metric Completeness, *Fixed Point Theory and Applications*, 2009.
4. Lazar T.A., Petrusel A., Shahzad N., Fixed points for non-self operators and domain invariance theorems, *Nonlinear Analysis Theory Methods & Applications*, 70(2009), no. 1, 117-125.
 - Petru T.P., Boriceanu M., Fixed point results for generalized phi-contraction on a set with two metrics, *Topological Methods in Nonlinear Analysis*, 33(2009), no. 2, 315-326.
5. Ceng L.C., Petrusel A., Yao J.C., Weak convergence theorem by a modified extragradient method for nonexpansive mappings and monotone mappings, *Fixed Point Theory*, 9(2008), no. 1, 73-87.
 - Cholamjiak P., Suantai S., A New Hybrid Algorithm for Variational Inclusions, Generalized Equilibrium Problems, and a Finite Family of Quasi-Nonexpansive Mappings, *Fixed Point Theory and Applications*, 2009.
 - Jaiboon C., Kumam P., A Hybrid Extragradient Viscosity Approximation Method for Solving Equilibrium Problems and Fixed Point Problems of Infinitely Many Nonexpansive Mappings, *Fixed Point Theory and Applications*, 2009 .
6. Petrusel A., Rus I.A., Fixed Point Theory for multivalued operators on a set with two metrics, *Fixed Point Theory*, 8(2007), no. 1, 97-104.
 - Petru T.P., Fixed point theorems for Kikkawa-Suzuki type multivalued operators in gauge spaces, *Carpathian Journal of Mathematics*, 24(2008), no. 3, 386-391.
 - Petru T.P., Boriceanu M., Fixed point results for generalized phi-contraction on a set with two metrics, *Topological Methods in Nonlinear Analysis*, 33(2009), no. 2, 315-326.
 - Chifu C., Petrusel G., Well-Posedness and Fractals via Fixed Point Theory, *Fixed Point Theory and Applications*, 2008.
7. Petrusel A., Yao J.C., Viscosity approximation to common fixed points of families of nonexpansive mappings with generalized contractions mappings, *Nonlinear Analysis Theory Methods & Applications*, 69(2008), no. 4, 1100-1111.
 - Lin Q., Viscosity approximation to common fixed points of a nonexpansive semigroup with a generalized contraction mapping, *Nonlinear Analysis Theory Methods & Applications*, 71(2009), no. 11, 5451-5457.
 - Song Y.S., Liu X., Convergence Comparison of Several Iteration Algorithms for the Common Fixed Point Problems, *Fixed Point Theory and Applications*, 2009.
 - Yao Y.H., Liou Y.C., Kang SM, Strong convergence of an iterative algorithm on an infinite countable family of nonexpansive mappings, *Applied Mathematics and computation*, 208(2009), no. 1, 211-218.
8. Lazar T., O'Regan D., Petrusel A., , Fixed points and homotopy results for ciric-type multivalued operators on a set with two metrics, *Bulletin of the Korean Mathematical Society*, 45(2008), no. 1, 67-73.

- Petru T.P., Boriceanu M., Fixed point results for generalized ϕ -contraction on a set with two metrics, *Topological Methods in Nonlinear Analysis*, 33(2009), no. 2, 315-326 .
9. O'Regan D., Petrusel A., Fixed point theorems for generalized contractions in ordered metric spaces, *Journal of Mathematical Analysis and Applications*, 341(2008), no. 2, 1241-1252.
 - Suzuki T., A new type of fixed point theorem in metric spaces, *Nonlinear Analysis Theory Methods & Applications*, 71(2009), no. 11, 5313-5317.
 - Mena J.C., Harjani J., Sadarangani K., Existence and Uniqueness of Positive and Nondecreasing Solutions for a Class of Singular Fractional Boundary Value Problems, *Boundary Value Problems*, 2009.
 - Harjani J., Sadarangani K., Fixed point theorems for weakly contractive mappings in partially ordered sets, *Nonlinear Analysis Theory Methods & Applications*, 71(2009), no. 7-8, 3403-3410 .
 - Beg I., Butt A.R., Fixed point for set-valued mappings satisfying an implicit relation in partially ordered metric spaces, *Nonlinear Analysis Theory Methods & Applications*, 71(2009), no. 9, 3699-3704.
 - Gwozdz-Lukawska G., Jachymski J., IFS on a metric space with a graph structure and extensions of the Kelisky-Rivlin theorem, *Journal of Mathematical Analysis and Applications*, 356 (2009), no. 2, 453-463.
 - Beg I., Butt A.R., Fixed points for weakly compatible mappings satisfying an implicit relation in partially ordered metric spaces, *Carpathian Journal of Mathematics*, 25(2009), no. 1, 1-12.
 - Burgic D., Kalabusic S., Kulenovic M.R.S., Global Attractivity Results for Mixed-Monotone Mappings in Partially Ordered Complete Metric Spaces, *Fixed Point Theory and Applications*, 2009 .
 - Ciric L., Cakic N., Rajovic M., et al., Monotone Generalized Nonlinear Contractions in Partially Ordered Metric Spaces, *Fixed Point Theory and Applications*, 2008.
 10. Rus I.A., Petrusel A., Petrusel G., Fixed point theorems for set-valued Y -contractions, *Fixed Point Theory and Its Applications*, Book Series: Banach Center Publications, 77(2007), 227-237.
 - Al-Thagafi M.A., Shahzad N., Convergence and existence results for best proximity points, *Nonlinear Analysis Theory Methods & Applications*, 70(2009), no. 10, 3665-3671.
 11. Chifu C., Petrusel A., Multivalued fractals and generalized multivalued contractions, *Chaos Solitons & Fractals*, 36(2008), no. 2, 203-210.
 - Ciric L., Some new results for Banach contractions and Edelstein contractive mappings on fuzzy metric spaces, *Chaos Solitons & Fractals*, 42(2009), no. 1, 146-154.
 12. Petrusel A., Rus I.A., Yao J.C., Well-posedness in the generalized sense of the fixed point problems for multivalued operators, *Taiwanese Journal of Mathematics*, 11(2007), no. 3, 903-914.
 - Long X.J., Huang N.J., Metric characterizations of α -well-posedness for symmetric quasi-equilibrium problems, *Journal of Global Optimization*, 45(2009), no. 3, 459-471.
 - Jiang B., Zhang J., Huang X.X., Levitin-Polyak well-posedness of generalized quasivariational inequalities with functional constraints, *Nonlinear Analysis Theory Methods & Applications*, 70(2009), no. 4, 1492-1503.
 - Chifu C., Petrusel G., Well-Posedness and Fractals via Fixed Point Theory, *Fixed Point Theory and Applications*, 2008 .
 13. Petrusel A., Rus I.A., Fixed point theorems in ordered L -spaces, *Proceedings of the American Mathematical Society*, 134(2006), no. 2, 411-418.
 - Ciric L.B., Mihet D., Saadati R., Monotone generalized contractions in partially ordered probabilistic metric spaces, *Topology and Its Applications*, 156(2009), no. 17, 2838-2844.
 - Harjani J., Sadarangani K., Fixed point theorems for weakly contractive mappings in partially ordered sets, *Nonlinear Analysis Theory Methods & Applications*, 71(2009), no. 7-8, 3403-3410.
 - Beg I., Butt A.R., Fixed point for set-valued mappings satisfying an implicit relation in partially ordered metric spaces, *Nonlinear Analysis Theory Methods & Applications*, 71(2009), no. 9, 3699-3704.
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- Ilea V., Otrocol D., On a D.V. Ionescu problem for functional-differential equations, *Fixed Point Theory*, 10(2009), no. 1, 125-140.
 - Beg I., Butt A.R., Fixed points for weakly compatible mappings satisfying an implicit relation in partially ordered metric spaces, *Carpathian Journal of Mathematics*, 25(2009), no. 1, 1-12.
 - Burgic D., Kalabusic S., Kulenovic M.R.S., Global Attractivity Results for Mixed-Monotone Mappings in Partially Ordered Complete Metric Spaces, *Fixed Point Theory and Applications*, 2009.
 - Jachymski J., The contraction principle for mappings on a metric space with a graph, *Proceedings of the American Mathematical Society*, 136(2008), no. 4, 1359-1373.
 - Nieto J.J., Pouso R.L., Rodriguez-Lopez R., Fixed point theorems in ordered abstract spaces, *Proceedings of the American Mathematical Society*, 135(2007), no. 8, 2505-2517.
 - Petrusel G., Fixed point results for multivalued contractions on ordered gauge spaces, *Central European Journal of Mathematics*, 7(2009), no. 3, 520-528,
14. Espinola R., Petrusel A., Existence and data dependence of fixed points for multivalued operators on gauge spaces, *Journal of Mathematical Analysis and Applications*, 309(2005), no. 2, 420-432.
- Petrusel G., Fixed point results for multivalued contractions on ordered gauge spaces, *Central European Journal of Mathematics*, 7(2009), no. 3, 520-528,
 - Fang J.X., Liu X.Y., Fixed point theorems for set-valued Φ -generalized contractions on gauge spaces, *Nonlinear Analysis Theory Methods & Applications*, 69(2008), no. 1, 201-207.
 - Frigon M., Fixed point and continuation results for contractions in metric and gauge spaces, *Fixed Point Theory and Its Applications*, Book Series: Banach Center Publications, 77(2007), 89-114.

2. Alte citări ale lucrărilor listate mai sus

1. Petrusel A., Rus I.A., Fixed point theorems in ordered L-spaces, *Proceedings of the American Mathematical Society*, 134(2006), no. 2, 411-418.
 - Petrusel G., Fixed point results for multivalued contractions on ordered gauge spaces, *Central European Journal of Mathematics*, 7(2009), no. 3, 520-528,

3. Citări în perioada 2005-2009 ale articolelor anterioare anului 2005

1) Rus Ioan A.; Petrușel Adrian; Petrușel Gabriela, Fixed point theory: 1950--2000. Romanian contributions. House of the Book of Science, Cluj-Napoca, 2002. xiv+308 pp.

- Olatinwo Memudu O. Some results on multi-valued weakly Jungck mappings in b-metric space. *Cent. Eur. J. Math.* 6 (2008), no. 4, 610--621.
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2) Petrușel Adrian, On Frigon-Granas-type multifunctions. *Nonlinear Anal. Forum* 7 (2002), no. 1, 113-121.

- Kamran Tayyab, Multivalued Ψ -weakly Picard mappings. *Nonlinear Anal.* 67 (2007), no. 7, 2289-2296.
- Berinde, Mădălina; Berinde, Vasile, On a general class of multi-valued weakly Picard mappings. *J. Math. Anal. Appl.* 326 (2007), no. 2, 772-782.

3) Rus Ioan A.; Petrușel Adrian; Sîntămărian Alina: Data dependence of the fixed point set of some multivalued weakly Picard operators. *Nonlinear Anal.* 52 (2003), no. 8, 1947-1959.

- Ćirić Ljubomir, Multi-valued nonlinear contraction mappings. *Nonlinear Anal.* 71 (2009), no. 7-8, 2716-2723.
- Kiran Quanita; Kamran Tayyab, Nadler's type principle with high order of convergence. *Nonlinear Anal.* 69 (2008), no. 11, 4106-4120.
- Kamran Tayyab, Multivalued Ψ -weakly Picard mappings. *Nonlinear Anal.* 67 (2007), no. 7, 2289-2296.

- Berinde Mădălina; Berinde Vasile On a general class of multi-valued weakly Picard mappings. *J. Math. Anal. Appl.* 326 (2007), no. 2, 772-782.
- 4) Rus Ioan A.; Petrușel, Adrian; Șerban, Marcel Adrian Weakly Picard operators: equivalent definitions, applications and open problems. *Fixed Point Theory* 7 (2006), no. 1, 3-22.
- Suzuki Tomonari, A new type of fixed point theorem in metric spaces. *Nonlinear Anal.* 71 (2009), no. 11, 5313-5317.
- 5) Petrușel Adrian, Multivalued operators and continuous selections. The fixed points set. *Pure Math. Appl.* 9 (1998), no. 1-2, 165-170.
- Hong Shihuang; Guan Dongxue; Wang Li, Hybrid fixed points of multivalued operators in metric spaces with applications. *Nonlinear Anal.* 70 (2009), no. 11, 4106-4117.
 - Dhage B. C., Multi-valued operators and fixed point theorems in Banach algebras. I. *Taiwanese J. Math.* 10 (2006), no. 4, 1025-1045.
 - Dhage B. C., A general multi-valued hybrid fixed point theorem and perturbed differential inclusions. *Nonlinear Anal.* 64 (2006), no. 12, 2747-2772.
- 6) Petrușel Adrian, Integral inclusions. Fixed point approaches. *Comment. Math. Prace Mat.* 40 (2000), 147-158.
- Biles Daniel C.; Robinson Mark P.; Spraker John S., Fixed point approaches to the solution of integral inclusions. *Topol. Methods Nonlinear Anal.* 25 (2005), no. 2, 297--311.
 - Benchohra, M.; Nieto J. J.; Ouahabi A., Existence results for functional integral inclusions of Volterra type. *Dynam. Systems Appl.* 14 (2005), no. 1, 57—69.
- 7) Petrușel, Adrian; Sîntămărian Alina, Single-valued and multi-valued Caristi type operators. *Publ. Math. Debrecen* 60 (2002), no. 1-2, 167-177.
- Feng Yuqiang; Liu Sanyang, Fixed point theorems for multi-valued contractive mappings and multi-valued Caristi type mappings. *J. Math. Anal. Appl.* 317 (2006), no. 1, 103--112.
 - Popa Valeriu, A general selection theorem for multivalued functions satisfying an implicit relation. *Fixed Point Theory* 8 (2007), no. 2, 297--301.
- 8) Petrușel, Adrian, Fixed points for multifunctions on generalized metric spaces with applications to a multivalued Cauchy problem. *Comment. Math. Univ. Carolin.* 38 (1997), no. 4, 657-663.
- Straccia Umberto; Ojeda-Aciego Manuel; Damásio Carlos V. On fixed-points of multivalued functions on complete lattices and their application to generalized logic programs. *SIAM J. Comput.* 38 (2008/09), no. 5, 1881--1911.

4. Distincții, premii și alte recunoașteri naționale și internaționale: nu am

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

- Îndrumare lucrări de licență (număr lucrări susținute) : 20 (în 5 ani)
 - Îndrumare lucrări de disertație (număr lucrări susținute) : 14 (în 5 ani)
 - Doctoranzi (lista nominală a doctoranzilor înmatriculați resp. lista nominală a tezelor susținute)
- Doctoranzi înmatriculați :
- Doctoranzi care au susținut teza :
- 1) M. Boriceanu : Dynamics generated by singlevalued and multivalued operators, 2008
 - 2) P.T. Petru : Some contributions to fixed point theory for multivalued operators in gauge spaces, 2008
 - 3) L. Guran : Fixed point theory for multivalued operators in KST spaces, 2009
- Post-doctoranzi (lista nominală) : nu am

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

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

7. Membru în comitetul de redacție la reviste ISI

Managing Editor la revista ISI "Fixed Point Theory - An International Journal on Fixed Point Theory, Computation and Applications".

8. Membru în comitetul de redacție la reviste BDI

- în Comitetul de Redacție la revista "Studia Universitatis Babes-Bolyai", Mathematica.
- în Comitetul de Redacție la revista "Scientiae Mathematicae Japonicae".
- în Comitetul de Redacție la revista "Annals of the Tiberiu Popoviciu Seminar on Functional Equations, Approximation and Convexity".
- în Comitetul de Redacție la revista "International Journal of Mathematical Sciences".
- în Comitetul de Redacție la revista "Journal of Nonlinear Functional Analysis and Differential Equations".
- în Comitetul de Redacție la revista "International Journal of Modern Mathematics".
- în Comitetul de Redacție la revista "Mathematica"
- în Comitetul de Redacție la revista "The Journal of Nonlinear Sciences and its Applications" (TJNSA).
- în Comitetul de Redacție la revista "Bulletin of Research Center for Fixed Point Theory and Applications" (BRCFA).

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

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

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

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

- 1) Grant Nr.. 187/2005-2007 (CNCSIS), valoare totală: 75.900 Ron

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

- 1) A. Petrușel: Visiting Professor la Department of Applied Mathematics, Sun Yat-sen University, Kaohsiung, Taiwan, Martie-Iunie, 2007.
- 2) A. Petrușel: Invited Professor la Department of Mathematical Analysis, Univ. Valencia, Spania Mai 2008.
- 3) A. Petrușel: Visiting Professor la Department of Applied Mathematics, Sun Yat-sen University, Kaohsiung, Taiwan, July 10 – August 3, 2009.

14. Membru în comisii profesionale relevante, cu titlu oficial

-membru la C.N.A.T.D.C.U (comisia pentru atestarea titlurilor de conferentiar si profesor), comisia de contestatii

-evaluator grant international Pakistan

-membru in comisia de sustinere publica teza de doctorat India

15. Conferințe invitate internaționale

- 1) A. Petrușel: The 9th International Conference on Fixed Point Theory and Its Applications, July 16-22, 2009, National Changhua University of Education, Changhua, Taiwan (R.O.C.).
- 2) A. Petrușel: Teodor Angheluță International Conference, September 2007, Cluj-Napoca, Romania.
- 3) A. Petrușel: The 6th International Conference on Applied Mathematics, 16-21 September 2008, Baia-Mare.
- 4) A. Petrușel: Dong-Hwa University, Hualien, Taiwan- April 23, 2007.
- 5) A. Petrușel: Changhua National University of Education, Changhua, Taiwan- May 18, 2007.

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

2006- Sixth Joint Conference on Mathematics and Computer Science, June 2006, Pecs, Hungary.

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.)

- realizarea unei teorii a punctului fix pe spații însestrate cu două structuri (o structură metrică și una de ordin), obținerea de noi teoreme de punct fix și aplicarea acestora în studiul unor probleme din matematica fractalilor și teoria ecuațiilor integrale și diferențiale. Rezultatele obținute, (citate frecvent în literatura internațională) se grupează într-o serie de articole publicate în reviste de prestigiu și în reviste cu factor de impact mare, cum ar fi:

A. Petrusel, Ioan A. Rus: Fixed point theorems in ordered L-spaces. Proc. Amer. Math. Soc., 134 (2006), no. 2, 411-418.

C. Chifu, A. Petrusel: Multivalued fractals and multivalued generalized contractions, Chaos, Solitons & Fractals, 36(2008), 203-210.

D. O'Regan, A. Petrusel: Fixed point theorems for generalized contractions in ordered metric spaces, Journal of Mathematical Analysis and Applications, 341(2008), 1241-1252.

E. Llorens-Fuster, A. Petrusel, J.-C. Yao: Iterated function systems and well-posedness, Chaos, Solitons and Fractals, 41 (2009) 1561-1568.

Mentionez de asemenea, cartea

A. Petrusel: Operator Inclusions, House of the Book of Science Cluj-Napoca, 2002, 165 pp., ISBN 973-686-312-3.

Care s-a constituit în punctul de plecare în acest studiu, ea având foarte multe citări în literatura de specialitate.

Data: 19 martie 2010

Semnătura:

Certific validitatea datelor prezentate

Sef de catedră,

Prof.dr. Octavian Agratini