



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **PETRUȘEL, Adrian-Olimpiu**  
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Telephone(s) +40.264.405300 (office)  
Fax(es) +40.264.591.906  
E-mail petrusel@math.ubbcluj.ro  
Nationality Romanian  
Date of birth February 9, 1963  
Gender Male

### Desired employment / Occupational field

Professor of Mathematics, Babeș-Bolyai University Cluj-Napoca  
and Corresponding Member of the Academy of Romanian Scientists Bucharest,  
Romania (since 2017)

### Work experience

Since May 1<sup>st</sup>, 2012  
Dean of the Faculty of Mathematics and Computer Science  
Administrative activities  
Babeș-Bolyai University Cluj-Napoca, Romania  
Higher education

Dates Since October 2005  
Occupation or position held PhD supervisor  
Main activities and responsibilities Research activity  
Name and address of employer Babeș-Bolyai University Cluj-Napoca, Romania  
Type of business or sector Higher education

Dates Since March 2003  
Occupation or position held Full Professor  
Main activities and responsibilities Didactic and research activity  
Name and address of employer Babeș-Bolyai University, Faculty of Mathematics and Computer Science  
Type of business or sector Higher education

Dates February 1998 – February 2003  
Occupation or position held Associate Professor  
Main activities and responsibilities Didactic and research activity  
Name and address of employer Babeș-Bolyai University Cluj-Napoca, Romania  
Type of business or sector Higher education

Dates October 1994 - February 1998  
Occupation or position held Lecturer  
Main activities and responsibilities Didactic and research activity  
Name and address of employer Babeș-Bolyai University Cluj-Napoca, Romania  
Type of business or sector Higher education

Dates | October 1990 – September 1994  
 Occupation or position held | Assistant Professor  
 Main activities and responsibilities | Didactic and research activity  
 Name and address of employer | Babeş-Bolyai University Cluj-Napoca, Faculty of Mathematics and Computer Science, Romania  
 Type of business or sector | Higher education

Dates | November 1989 – September 1990  
 Occupation or position held | Researcher  
 Main activities and responsibilities | Didactic and research activity  
 Name and address of employer | Institute for Computer Science  
 Type of business or sector | Research institute

Dates | September 1986 – October 1989  
 Occupation or position held | Math Teacher  
 Main activities and responsibilities | Teaching  
 Name and address of employer | Secondary School no. 2, Gherla, Cluj County  
 Type of business or sector | Didactic activity

**Education and training**

Dates | October 1990 – May 1994  
 Title of qualification awarded | Doctor in Mathematics  
 Principal subjects/occupational skills covered | Doctoral studies in Mathematics  
 Name and type of organisation providing education and training | Babeş-Bolyai University, Faculty of Mathematics and Computer Science  
 Public institution  
 Level in national or international classification | Doctoral studies  
 ISECD Level 6

Dates | September 1982– July 1986  
 Title of qualification awarded | B.Sc. Degree Diploma  
 Principal subjects/occupational skills covered | Specialization Mathematics  
 Name and type of organisation providing education and training | Babeş-Bolyai University Cluj-Napoca, Faculty of Mathematics and Computer Science  
 Public Higher Education Institution  
 Level in national or international classification | Bachelor in Mathematics  
 ISECD Level 5

**Personal skills and competences**

Mother tongue(s) | **Romanian**

Other language(s)

Self-assessment  
 European level (\*)

**English**

**French**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user
C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user

(\*) [Common European Framework of Reference for Languages](http://www.cedefop.europa.eu)

Social skills and competences Capacity to adapt to multicultural environments, obtained via academic mobility abroad

Organisational skills and competences 2000-2008 Chancellor of the Faculty of Mathematics and Computer Science  
2008-2012 Vice-Dean of the Faculty of Mathematics and Computer Science  
2012 -2020 Dean of the Faculty of Mathematics and Computer Science

2018 - Corresponding Member of the Academy of Romanian Scientists

**Driving licence** Category B

**Additional information**

Papers in Web of Science (ISI) Clarivate Analytics	over 130
Papers in other international journals	over 50
Papers in proceedings of international conferences	10
Books, lecture notes	6
Papers in other publications	over 20
Conferences	over 40
Independent citations	over 1000
H-index (Web of Science)	20

For detailed information please access the personal web site, at  
<http://math.ubbcluj.ro/~petrusel/index-en.html>

Professor Adrian Petruşel, Ph.D.

**Editor, in the Editorial Board or scientific reviewer for international journals (during the last ten years)**

Editor-in-Chief of the journal "Fixed Point Theory"  
Co-Editor-in-Chief of the journal "Fixed Point Theory and Applications"  
in the Editorial Board of the journal "Scientiae Mathematicae Japonicae"  
in the Editorial Board of the journal "FILOMAT"  
in the Editorial Board of the journal "Applicable Analysis and Discrete Mathematics"  
in the Editorial Board of the journal "The Journal of Nonlinear Sciences and its Applications"  
in the Editorial Board of the journal "Journal of Function Spaces"  
in the Editorial Board of the journal "Discrete Dynamics in Nature and Society"  
in the Editorial Board of the journal "Miskolc Math. Notes"  
in the Editorial Board of the journal "Studia Universitatis Babeş-Bolyai, Mathematica"  
in the Editorial Board of the journal "J. Adv. Math. Stud."  
in the Editorial Board of the journal "Annals of the Tiberiu Popoviciu Seminar"  
in the Editorial Board of the journal "Mathematica" (Cluj)  
in the Editorial Board of the journal "Linear and Nonlinear Analysis"  
in the Editorial Board of the journal "Communications in Nonlinear Analysis"  
in the Editorial Board of the journal "Applied Analysis and Optimization"  
in the Editorial Board of the journal "Journal of Nonlinear and Variational Analysis"  
in the Editorial Board of the journal "International Journal of Modern Mathematics" (up to 2014)

reviewer for the journal "Carpathian Journal of Mathematics"  
reviewer for the journal "Taiwanese Journal of Mathematics"  
reviewer for the journal "Journal of Mathematical Analysis and Applications"  
reviewer for the journal "Sarajevo Journal of Mathematics"  
reviewer for the journal "International Journal of Mathematics and Mathematical Sciences"  
reviewer for the journal "Nonlinear Analysis-Theory, Methods and Applications"  
reviewer for the journal "Journal of Integral Equations and Applications"  
reviewer for the journal "Applied Mathematics Letters"  
reviewer for the journal "SIAM Journal on Optimization"  
reviewer for the journal "Optimization"  
reviewer for the journal "Journal of Applied Mathematics and Computing"  
reviewer for the journal "Computers and Mathematics with Applications"  
reviewer for the journal "Applied Analysis and Discrete Mathematics"  
reviewer for the journal "Central European Journal of Mathematics"  
reviewer for the journal "Mathematica Slovaca"  
reviewer for the journal "Mathematical and Computer Modelling"  
reviewer for the journal "Mathematical Modelling and Analysis-The Baltic Journal on Mathematical Applications, Numerical Analysis and Differential Equations"  
reviewer for the journal "Mathematical Communications"  
reviewer for the journal "Rendiconti del Seminario Matematico della Universita di Padova"  
reviewer for the journal "Journal of Inequalities and Applications"  
reviewer for the journal "MATEMATICKI VESNIK"  
reviewer for the journal "Differeential Equations and Applications"  
reviewer for the journal "Journal of Applied Analysis"  
reviewer for the journal "Bulletin of the London Math. Society"  
reviewer for the journal "Discrete Dynamics in Nature and Society"  
reviewer for the journal "Journal of Convex Analysis"  
reviewer for the journal "Analele Ştiinţifice ale Univ. Ovidius Constanţa, Seria Matematica"  
reviewer for the journal "Abstract and Applied Analysis"  
reviewer for the journal "Journal of Optimization Theory and Applications"  
reviewer for the journal "International Journal of Bifurcation and Chaos"  
reviewer for the journal "International Journal of Analysis"  
reviewer for the journal "International Journal of Applied Mathematics"  
reviewer for the journal "Bulletin of the Belgian Mathematical Society Simon Stevin".

**Volumes editor**

Fixed Point Theory and its Applications, Yokohama Publishers Yokohama, Japan, 2010.  
Fixed Point Theory and its Applications, House of the Book of Science, Cluj-Napoca, Romania, 2013.  
Editor of several special issues of Abstract and Applied Analysis (2013-2014).

1. A. Petrusel: Generalized multivalued contractions, *Nonlinear Analysis*, 47(2001), 649-659.
2. A. Petrusel, A. Sîntamarian: Single-valued and multi-valued Caristi type operators, *Publ. Math. Debrecen*, 60(2002), 167-177.
3. I. A. Rus, A. Petrusel, A. Sîntamarian: Data dependence of the fixed points set of some multivalued weakly Picard operators, *Nonlinear Anal.*, 52(2003), no. 8, 1947-1959.
4. R. Espínola, A. Petrusel: Existence and data dependence of fixed points for multivalued operators on gauge spaces, *J. Math. Anal. Appl.* 309 (2005), 420-432.
5. A. Petrusel, I. A. Rus: Fixed point theorems in ordered L-spaces. *Proc. Amer. Math. Soc.*, 134(2006), no. 2, 411-418.
6. 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.
7. C. Chifu, A. Petrusel: Multivalued fractals and multivalued generalized contractions, *Chaos, Solitons & Fractals*, 36(2008), 203-210.
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. Donal O'Regan, Adrian Petrusel: Fixed point theorems for generalized contractions in ordered metric spaces *Journal of Mathematical Analysis and Applications*, 341(2008), 1241-1252.
10. Lu-Chuan Ceng, A. Petrusel, J.-C. Yao: Weak convergence theorem by a modified extragradient method for nonexpansive mappings and monotone mappings, *Fixed Point Theory*, 9(2008), 73-87.
11. Lu-Chuan 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.
12. A. Petrusel, J.-C. Yao: Viscosity approximation to common fixed points of families of nonexpansive mappings with generalized contractions mappings, *Nonlinear Anal.*, 69(2008), 1100-1111.
13. 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.
14. Lu-Chuan Ceng, A. Petrusel, S.Y. Wu: On hybrid proximal-type algorithms in Banach spaces, *Taiwanese J. Mathematics*, Vol. 12 (2008), No. 8, pp. 2009-2029.
15. 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.
16. G. Mot and A. Petrusel: Fixed point theory for a new type of contractive multivalued operators, *Nonlinear Anal.*, 70 (2009), 3371-3377.
17. A. Petrusel, J.-C. Yao: Viscosity Approximations by generalized contractions for resolvents of accretive operators in Banach spaces, *Acta Math. Sinica, English Series*, 25 (2009), 553-564.
18. 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.
19. T.A. Lazar, A. Petrusel, N. Shahzad: Fixed points for non-self operators and domain invariance theorems, *Nonlinear Anal.*, 70 (2009), no. 1, 117-125.
20. 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.
21. E. Llorens-Fuster, A. Petrusel, J.-C. Yao: Iterated function systems and well-posedness, *Chaos, Solitons and Fractals*, 41 (2009) 1561-1568.
22. 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.
23. Lu-Chuan Ceng, S. Huang, A. Petrusel: Generalized projection methods and iterative methods for approximating fixed points of asymptotically weakly suppressive operators, *Taiwanese J. Mathematics*, Vol. 14(2010), No. 1, 59-80.
24. A.-D. Filip, A. Petrusel: Fixed point theorems on spaces endowed with vector-valued metrics, *Fixed Point Theory and Applications*, Volume 2010, Article ID 281381, 15 pages, DOI:10.1155/2010/281381.
25. M. Boriceanu, M. Bota, A. Petrusel: Multivalued fractals in b-metric spaces, *Central European Journal of Mathematics*, 8(2010), no. 2, 367-377.
26. M.A. Şerban, I.A. Rus, A. Petrusel: A class of abstract Volterra equations, via weakly Picard operators technique, *Mathematical Inequalities & Applications*, 13(2010), 255-269.
27. Lu-Chuan Ceng, A. Petrusel, M.M. Wong: Strong convergence theorems by a relaxed extragradient-like scheme, *Taiwanese J. Math.*, 14(2010), no. 4, 1689-1711.

28. Lu-Chuan Ceng, A. Petrusel, M.M. Wong: Strong convergence theorem for a generalized equilibrium problem and a pseudocontractive mapping in a Hilbert space, *Taiwanese J. Math.*, 14(2010), No. 5, 1881-1901.
29. Lu-Chuan Ceng, A. Petrusel: Krasnoselski-Mann Iterations for Hierarchical Fixed Point Problems for a Finite Family of Nonself Mappings in Banach Spaces, *J. Optim. Theory Appl.*, 146(2010), 617-638.
30. L.-C. Ceng, A. Petruşel, S. Szentesi, J.-C. Yao: Approximation of Fixed Common Points and Variational Solutions for One-Parameter Family of Lipschitz Pseudocontractions, *Fixed Point Theory*, 11(2010), No. 2, 203-224.
31. L.-C. Ceng, A. Petruşel, J.-C. Yao: Iterative Approximation of fixed points for asymptotically strict pseudocontractive type mappings in the intermediate sense, *Taiwanese J. Mathematics*, 15(2011), No. 2, 587-606.
32. D.R. Sahu, Adrian Petrusel: Strong convergence of iterative methods by strictly pseudocontractive mappings in Banach spaces, *Nonlinear Analysis*, 74(2011), 6012-6023.
33. Lu-Chuan Ceng, Adrian Petrusel, Mu-Ming Wong, Su-Jane Yu: Strong convergence of implicit viscosity approximation methods for pseudocontractive mappings in Banach spaces, *Optimization*, 60(2011), No. 6, 659-670.
34. Adriana Nicolae, Donal O'Regan, Adrian Petrusel: Fixed point theorems for singlevalued and multivalued generalized contractions in metric spaces endowed with a graph, *Georgian Math. J.*, 18(2011), 307-327.
35. M. Bota, A. Petrusel, Ulam-Hyers stability for operatorial equations, *Analls of the Alexandru Ioan Cuza University Iasi*, 57 (2011), 65-74.
36. P.T. Petru, A. Petrusel, J.C. Yao, Ulam-Hyers stability for operatorial equations and inclusions via nonself operators, *Taiwanese J. Math.*, 15 (2011), No. 5, 2195-2212.
37. L.C. Ceng and A. Petrusel: Relaxed extragradient-like method for general system of generalized mixed equilibria and fixed point problem, *Taiwanese J. Math.*, 16(2012), 445-478.
38. A. Petrusel and G. Petrusel: Multivalued Picard operators, *J. Nonlinear Convex Anal.*, 13(2012), no. 1, 157-171.
39. L.C. Ceng, Yen-Cherng Lin and Adrian Petrusel: Hybrid method for designing explicit hierarchical fixed point approach to monotone variational inequalities, *Taiwanese J. Math.*, 16(2012), No. 4, 1531-1555.
40. I.-R. Petre, A. Petrusel: Krasnoselskii's theorem in generalized Banach spaces and applications, *Electron. J. Qual. Theory Differ. Equ.*, 2012, No. 85, 20 pp.
41. M.A. Alghamdi, A. Petrusel, N. Shahzad: A fixed point theorem for cyclic generalized contractions in metric spaces, *Fixed Point Theory and Applications*, 2012, Article Number: 122 DOI: 10.1186/1687-1812-2012-122.
42. M.A. Alghamdi, A. Petrusel, N. Shahzad: Correction: A fixed point theorem for cyclic generalized contractions in metric spaces. *Fixed Point Theory and Applications* 2012, 2012:122 *Fixed Point Theory Appl.*, 2013, 2013:39, 2 pp.
43. L.-C. Ceng, A. Petrusel and J.-C. Yao: Multi-step hybrid iterative method for triple hierarchical variational inequality problem with equilibrium problem constraint, *J. Nonlinear Convex Anal.*, 13(2012), no. 3, 475-502.
44. O. Mlesnite, A. Petrusel: Existence and Ulam-Hyers stability results for multivalued coincidence problems, *Filomat* 26(2012), no.5, 965-976.
45. L.C. Ceng, A. Petrusel, J.-C. Yao: Relaxed extragradient methods with regularization for general system of variational inequalities with constraints of split feasibility and fixed point problems, *Abstract and Applied Analysis*, 2013, Article Number: 891232 DOI: 10.1155/2013/891232.
46. A. Amini-Harandi, M. Fakhar, H. R. Hajisharifi, A. Petruşel: Fixed point theorems for multivalued contractions in distance spaces, *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas*, July 2013, DOI: 10.1007/s13398-013-0136-4
47. D.R. Sahu, A. Petrusel, J.-C. Yao: On fixed points of pointwise Lipschitzian type mappings, *Fixed Point Theory*, 14(2013), 171-184.
48. A. Petrusel, I.A. Rus, M.A. Serban: The role of equivalent metrics in fixed point theory, *Topol. Meth. Nonlinear Anal.*, 41(2013), No. 1, 85-112.
49. D.A. Filip, A. Petruşel: Fixed point theorems for operators in generalized Kasahara spaces, *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas*, 109(2015), no.1, 15-26.
50. Lu-Chuan Ceng, Adrian Petruşel, Mu-Ming Wong, and Jen-Chih Yao: Hybrid algorithms for solving variational inequalities, variational inclusions, mixed equilibria, and fixed point problems, *Abstract and Applied Analysis*, Volume 2014 (2014), Article ID 208717, 22 pages.
51. L.C. Ceng, A. Petruşel and J.C. Yao: Composite viscosity approximation methods for equilibrium problem, variational inequality and common fixed points, *J. Nonlinear Convex Anal.*, 15(2014), no. 2, 219-240.

52. S. Abbas, M. Benchohra, A. Petrusel, Ulam stability for partial fractional differential inclusions via Picard operators theory, *Electronic J. Qualitative Th. Differ. Eq.*, 51(2014), 1-13.
53. M. Jleli, E. Karapinar, A. Petrusel, B. Samet, C. Vetro, Optimization Problems via Best Proximity Point Analysis, *Abstract Applied Anal.*, Article Number: 178040, DOI: 10.1155/2014/178040, 2014.
54. J.-C. Yao, A. Latif, C. Li, A. Petrusel, *Variational Analysis, Optimization, and Fixed Point Theory, Abstract and Applied Analysis*, Volume 2015, 19 January 2015, Article number 312823.
55. A. Petrusel, D.R. Sahu, V. Sagar, Vidya, An extragradient iterative scheme for common fixed point problems and variational inequality problems with applications, *Analele St. Univ. Ovidius Constanta, Seria Matematica*, 23(2015), No. 1, 247-266.
56. A.D. Filip, A. Petrusel, Fixed point theorems for operators in generalized Kasahara spaces, *Revista Real Academia Ciencias Exactas, Fisicas y Naturales. Serie A. Matematicas*, 109(2015), 15-26.
57. L.-C. Ceng, Q.H. Ansari, A. Petruşel and J.-C. Yao: Approximation methods for triple hierarchical variational inequalities (I), *Fixed Point Theory*, 16(2015), 67-90.
58. E. Karapinar, W.S. Du, P. Kumam, A. Petrusel, S. Romaguera, Existence and uniqueness of fixed points in various abstract spaces and related results, *Abstract Anal. Appl.*, Vol. 2015, Article ID 123984.
60. A. Petrusel, I.A. Rus, M.A. Şerban: Fixed Points, Fixed sets and iterated multifunction systems for nonself multivalued operators, *Set-Valued Var. Anal.* 23(2015), 223-237.
61. A. Petrusel, G. Petrusel: Nonlinear dynamics, fixed points and coupled fixed points in generalized gauge spaces with applications to a system of integral equations, *Discrete Dynamics in Nature and Society*, Volume 2015 (2015), Article ID 143510, 10 pages, <http://dx.doi.org/10.1155/2015/143510>
62. A. Petrusel, B. Satco: Semilinear evolution equations with distributed measures, *Fixed Point Theory and Applications* 2015, 2015:145 doi:10.1186/s13663-015-0392-4.
63. L.-C. Ceng, Q. H. Ansari, A. Petrusel, J.-C. Yao: Approximation methods for triple hierarchical variational inequalities (II), *Fixed Point Theory* 16(2015), no. 2, 237-260.
64. A. Petrusel, A. Soos: Self-similar sets and fractals generated by Ćirić type operators, *J. Nonlinear Sci. Appl.*, 8(2015), 1048-1058.
65. A. Amini-Harandi, A. Petrusel: An endpoint theorem in generalized L-spaces with applications, *J. Nonlinear Convex Anal.*, 16(2015), no.2, 265-271.
66. A. Petruşel, I.A. Rus, M.A. Şerban: Basic problems of the metric fixed point theory and the relevance of a metric fixed point theorem for a multivalued operator, *J. Nonlinear Convex Anal.*, 15(2014), no. 3, 493-513.
67. M.-F. Bota, A. Petrusel, G. Petrusel, B. Samet: Coupled fixed point theorems for single-valued operators in b-metric spaces, *Fixed Point Theory and Applications* 2015, 2015:231.
68. Y. Su, A. Petrusel, J.-C. Yao: Multivariate fixed point theorems for contractions and nonexpansive mappings with applications, *Fixed Point Theory Appl.* 2016, 2016:9, 19 pp.
69. A. Petrusel, G. Petrusel, B. Samet: A study of the coupled fixed point problem for operators satisfying a max-symmetric condition in b-metric spaces with applications to a boundary value problem, *Miskolc Math. Notes*, 17 (2016), no. 1, 501-516.
70. A. Petrusel, G. Petrusel, J.-C. Yao: A study of a system of operator inclusions via a fixed point approach and applications to functional-differential inclusions, *Carpathian J. Math.*, 32 (2016), 349-361.
71. A. Petrusel, G. Petrusel, B. Samet, J.-C. Yao: Coupled fixed point theorems for symmetric multi-valued contractions in b-metric space with applications to systems of integral inclusions, *J. Nonlinear Convex Anal.*, 17 (2016), No. 7, 1265-1282.
72. A. Petruşel, I.A. Rus, M.A. Şerban: Diagonal operators and coupled fixed points via weakly Picard operator technique, *Ann. Acad. Rom. Sci. Ser. Math. Appl.*, 8(2016), No. 2, 155-162.
73. A. Petruşel, I.A. Rus, M.A. Şerban: Contributions to the theory of diagonal operators, *Fixed Point Theory Appl.*, 2016:95, 2016, 1-21.
74. S. Abbas, M. Benchohra, A. Petruşel: Ulam stability for Hilfer type fractional differential inclusions via the weakly Picard operator theory, *Fractional Calc. Appl. Anal.*, 20(2017), no.2, 384-398.
75. A. Petrusel, G. Petrusel, J.-C. Yao: Fixed point and coincidence point theorems in complete b-metric spaces with applications, *Appl. Anal. Discrete Math.* 11(2017), no. 1, 199-215.
76. M. Bota, V. Ilea, A. Petruşel: Krasnoselskii's theorem in generalized b-Banach spaces and applications, *J. Nonlinear Convex Anal.*, 18(2017), no. 4, 575-587.
77. Y. Yao, Yonghong; A. Petruşel, X. Qin: An improved algorithm based on Korpelevich's method for variational inequalities in Banach spaces, *J. Nonlinear Convex Anal.* 19(2018), no. 3, 397-406.
78. J. Brzdęk, E. Karapinar, Erdal; A. Petruşel: A fixed point theorem and the Ulam stability in generalized dq-metric spaces, *J. Math. Anal. Appl.* 467 (2018), no. 1, 501-520.
79. X. Qin, A. Petruşel, J.-C. Yao: CQ iterative algorithms for fixed points of nonexpansive mappings and split feasibility problems in Hilbert spaces, *J. Nonlinear Convex Anal.* 19 (2018), no. 1, 157-165.
80. A. Petruşel, Adrian; G. Petrusel, Y.-B. Xiao, J.-C. Yao: Fixed point theorems for generalized contractions with applications to coupled fixed point theory, *J. Nonlinear Convex Anal.* 19 (2018), 71-88.
81. A. Petruşel, A. Soos: Coupled fractals in complete metric spaces, *Nonlinear Anal. Model. Control* 23 (2018), no. 2, 141-158.
82. A. Petrusel, G. Petrusel, J.-C. Yao: Multi-valued graph contraction principle with applications, *Optimization*, DOI: 10.1080/02331934.2019.1633652.

83. M. Abbas, H. Iqbal, A. Petrusel: Fixed points for multivalued Suzuki type  $(\Theta, R)$ -contraction mappings with applications, *J. Funct. Spaces* 2019, Art. ID 9565804, 13 pp.
84. A. Petrusel, G. Petrusel: Coupled fractal dynamics via Meir–Keeler operators, *Chaos Solitons Fractals* 122 (2019), 206-212.
85. A. Petrusel, G. Petrusel, J.-C. Yao: Pseudo-contractivity and metric regularity in fixed point theory, *J. Optim. Theory Appl.* 180 (2019), no. 1, 5-18.
86. L.C. Ceng, A. Petrusel, J.-C. Yao, Y. Yao: Systems of variational inequalities with hierarchical variational inequality constraints for Lipschitzian pseudo-contractions, *Fixed Point Theory* 20(2019), 113-133.
87. A. Petrusel, G. Petrusel, J.-C. Yao: Coupled fixed points theorems in quasimetric spaces without mixed monotonicity, *Carpathian J. Math.* 35(2019), no.2, 169-176.
88. Gh. Morosanu, A. Petrusel: A proximal point algorithm revisited and extended, *J. Optim. Theory Appl.*, 182 (2019), 1120-1129.
89. A. Petrusel, G. Petrusel, J.-C. Yao: Existence and stability results for a system of operator equations via fixed point theory for nonself orbital contractions, *J. Fixed Point Theory* 21(2019), no. 3, DOI: 10.1007/s11784-019-0711-1.
90. L.C. Ceng, A. Petrusel, C.-F. Wen, J.-C. Yao, Inertial-like subgradient extragradient methods for variational inequalities and fixed points of asymptotically nonexpansive and strictly pseudocontractive mappings, *Mathematics* 7(2019) no. 9, Article Number: 860, DOI: 10.3390/math7090860.
91. A. Petrusel, I.A. Rus, Fixed point theory in terms of a metric and of an order relation, *Fixed Point Theory* 20 (2019), 601-622.
92. S. Som, A. Petrusel, H. Garai, L.K. Dey: Some characterizations of Reich and Chatterjea type nonexpansive mappings, *J. Fixed Point Theory* 21(2019), no. 4, DOI: 10.1007/s11784-019-0731-x.
93. A. Petrusel, G. Petrusel: Some variants of the contraction principle for multi-valued operators, generalizations and applications, *J. Nonlinear Convex Anal.*, 20(2019), no. 10, 2187-2203.
94. A. Petrusel: Local fixed point results for graphic contractions, *J. Nonlinear Variational Anal.* 3(2019), no. 2, 141-148.
95. A. Petrusel, G. Petrusel: Fixed points, coupled fixed points and best proximity points for cyclic operators, *J. Nonlinear Convex Anal.*, 20(2019), no.8, 1637-1646.
96. J. Li, A. Petrusel: Extended coupled fixed point problems for set-valued mappings on partially ordered Banach spaces and their applications to systems of Hammerstein integral equations, *J. Nonlinear Convex Anal.*, 20(2019), no.11, 2321-2333.
97. Lu-Chuan Ceng, A. Petrusel, Jen-Chih Yao: On Mann Viscosity Subgradient Extragradient Algorithms for Fixed Point Problems of Finitely Many Strict Pseudocontractions and Variational Inequalities, *Mathematics*, 7 (2019) No. 10, Article Number: 925.
98. A. Petrusel, Radu Precup, Marcel-Adrian Serban: On the approximation of fixed points for non-self mappings on metric space, *Discrete and Continuous Dynamical Systems-Series B*, 25 (2020), No. 2, 733-747.



**Papers in other proceedings****(selected list)**

1. A. Petrusel, G. Mot: Convexity and decomposability in multivalued analysis, Proc. of the Generalized Convexity/Monotonicity Conference, Samos, Greece, 1999, Lecture Notes in Economics and Mathematical Sciences, Springer-Verlag, 2001, 333-341.
2. A. Petrusel, I. A. Rus: Multivalued Picard and weakly Picard operators, Proc. of the International Conf. on Fixed Point Theory and Applications, Yokohama Publ., 2004, 207-226.
3. A. Petrusel: Fixed point theory: The Picard operator technique, Proc. Seminar on Mathematical Analysis, University of Malaga and University of Sevilla, 2004, 175-193.
4. 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. A. Petrusel, I.A. Rus: The theory of a metric fixed point theorem for multivalued operators, Proc. of the Ninth Intern. Conf. on Fixed Point Theory and its Applications, Changhua, Taiwan, July 16-22, 2009, Yokohama Publ. 2011, 161-175.
6. A. Petrusel: Fixed point and coincidence point theorems for multivalued operators, Topics in Nonlinear Analysis and Optimization, (Q.H. Ansari-Ed.), World Education Delhi, 2012, 137-158.

**Monographs and Book's Chapters**

1. A. Petrusel: Multifunctions and Applications, Cluj University Press, Cluj-Napoca, 2002, 215 pp.
2. A. Petrusel: Operator Inclusions, House of the Book of Science Cluj-Napoca, 2002, 165 pp.
3. I. A. Rus, A. Petrusel, G. Petrusel: Fixed Point Theory 1950-2000 : Romanian Contributions, House of the Book of Science, Cluj-Napoca, 2002, 325 pp.
4. A. Petrusel, G. Mot : Multivalued Analysis and Mathematical Economics, House of the Book of Science, Cluj-Napoca, 2004, 148 pp.
5. 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.
6. I. A. Rus, A. Petrusel, G. Petrusel: Fixed Point Theory, Cluj University Press, 2008, 515 pp.
7. Adrian Petrușel, I.A. Rus: A class of functional-differential equations with applications to a bilocal problem, in: Topics in Mathematical Analysis and Applications (Themistocles M. Rassias, L. Toth-Eds.), Springer 2014, pp.609-632.
8. V. Berinde, A. Petrușel, I.A. Rus, M.A. Șerban: The retraction-displacement condition in the theory of fixed point equation with a convergent iterative algorithm, in: Mathematical Analysis, Approximation Theory and Their Applications (Th.M. Rassias, V. Gupta-Eds), Springer 2016, pp. 75-106.
9. A. Petrușel, I.A. Rus, M.A. Șerban: Fixed point structures, invariant operators, invariant partitions, and applications to Caratheodory integral equations, Contributions in Mathematics and Engineering, Springer Verlag, 2016, 497-515.
10. A. Petrusel, G. Petrusel: Coupled fixed points and coupled coincidence points via fixed point theory, Mathematical Analysis and Applications: Selected Topics (M. Ruzhansky, H. Dutta, R.P. Agarwal - Eds.), Wiley, 2018, 661-708.

**Volume Editor for International Journals**

- 1) E. Karapinar, W.S. Du, P. Kumam, A. Petrusel, S. Romaguera (Editors): Existence and uniqueness of fixed points in various abstract spaces and related results, Special issue- Abstract and Applied Analysis, Hindawi, 2015.
- 2) J.C. Yao, A. Latif, C. Li, A. Petrusel (Editors): Variational Analysis, Optimization and Fixed Point Theory, Special issue-Abstract and Applied Analysis, Hindawi, 2014.

**Principal investigator**

**2000-2001:** Principal investigator of a grant (B03/2000 and A13/2001) for young scientists with National Council for Research, Romania

**2005-2007:** Principal investigator of a grant (no. 87/2005-2007) with National Council for Research, Romania.

**Ph.D. Supervisor**

**Field:** Nonlinear Operators and Differential Equations

**Finalized Ph.D. Thesis::** Monica Boriceanu (Bota) (2009), Petru Tunde Petra (2009), Liliana Guran (2010), Tania Lungu (2010), Ioana Tise (2010), Adriana Nicolae (2011), Darius Filip (2011), Vasile Lazar (2012), Ioan-Radu Petre (2012), Casian Butaci (2012), Oana Mleşnițe (2013), Cristina Urs (2013), Coroian Iulia (2016), Cristian Alecsa (2019).

## Research visits

## Invited researcher

1. 2003, October: Sevilla University, Spain.
2. 2004, September: Valencia University, Spain.
3. 2008, May-June: Valencia University, Spain.
4. 2011, June: Amirkabir University of Technology, Tehran, Iran.
5. 2012, February: Chiang mai University, Chiang mai, Thailand
6. 2012 February, King Mongkut's University of Technology Thonburi, Bangkok, Thailand
7. 2013 May: Universite de Sfax, Sfax, Tunisia.
8. 2014 November: University of Lublin, Poland
9. 2015 October, National Sun Yat-sen University, Kaohsiung, Taiwan
10. 2016 and 2017 May and October, National Sun Yat-sen University, Kaohsiung, Taiwan
11. 2016 and 2017 May and October, Hangzhou Dianzi University, Hangzhou, P.R. China
12. 2017 October, Institute of Fundamental and Frontier Sciences, University of Electronic Science and Technology of China, Chengdu, P.R. China.
13. 2018 September, National Sun Yat-sen University, Kaohsiung, Taiwan
14. 2019 Vienna, University of Vienna, Austria
15. 2019 July, National Sun Yat-sen University, Kaohsiung, Taiwan

## Invited Professor

1. International School "Non-smooth Analysis and Applications to Mathematical Economics, organized by the Excellence Center "Mathematics and its Applications", under the financial support of DAAD, September 2003.
2. Department of Applied Mathematics, National Sun Yat-sen University, Kaohsiung, Taiwan, Mars-June 2007.

## Invited Conferences (selected list of the last two years)

- 1) A. Petrusel: "Contributions of Tudor Zamfirescu to fixed point theory", Geometry Conference dedicated to Tudor Zamfirescu, Univ. Mulhouse, Franta, September 7-11, 2014.
- 2) A. Petrusel: Fixed point and coincidence point theory via multivalued weakly Picard operator technique, Second Workshop on Fixed Point Theory and Applications, Amirkabir Univ. of Technology Tehran, Iran, June 14-15, 2011.
- 3) A. Petrusel: Equivalent metrics in fixed point theory, University of Sfax, Tunisia, June 19-26, 2013.
- 4) A. Petrusel: On some open problems in fixed point theory, ANCNA, University of Bolu, Turkey, July 2-6, 2013.
- 5) A. Petruşel: Applications of some fixed point theorems in  $R^m$ -metric spaces, The 14th International Conference on Mathematics and its Applications - ICMA 2015, Timișoara.
- 6) A. Petruşel: Fixed point theory for diagonal operators, International Workshop on Applied Anal. Optim., China Medical University Taichung, Taiwan, May 25-28, 2016.
- 7) A. Petruşel: Coupled fixed point problems and applications, Workshop on Fixed Point theory and Its Appl. –on the occasion of Enrique Llorens'70<sup>th</sup> birthday, Univ. Valencia, December 15-16, 2017.
- 8) A. Petruşel: Coupled coincidence point theory, Workshop on Nonlinear Anal. Optim.-in honour of Aram Arutyunov, Univ. Porto, April 19-21, 2017.
- 9) A. Petrusel: An extended version of the multi-valued contraction principle, Intern. Workshop on Nonlinear and Variational Analysis, Kaohsiung Medical Univ., July 21-22, 2017.
- 10) A. Petrusel: On some stability properties in fixed point theory, Intern. Workshop on Nonlinear and Variational Analysis, Tianjin Polytechnic Univ., July 15-17, 2019.
- 11) A. Petrusel: Fixed point theory in terms of a metric and of an order relation, King Fahd Univ. Petroleum & Minerals, December 18-19, 2019.

Date: March, 2020

Professor Adrian Petruşel, Ph.D.

