

## *CURRICULUM VITAE*

**1. Last name: Petrușel**

**2. First name: Gabriela- Reghina**

**3. Date and place of birth: August 6, 1969, Iclod, Cluj County, Romania**

**4. Address: Pasteur Street, no 56/18, Cluj-Napoca, Romania**

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**6. Education:**

Institution	“Petru Maior” High School in Gherla	Babes-Bolyai University, Faculty of Mathematics	Babes-Bolyai University, Faculty of Mathematics and Computer Science
Period	1984-1988	1989-1994	2000-2005
Diplomas	School-leaving Examination	Bachelor in Mathematics	Ph.D. in Mathematics

**7. Scientific title: Ph.D. in Mathematics**

**8. Professional experience:**

Period	1995-2008-	2008-
Place	Cluj-Napoca	Cluj-Napoca
Institution	Lucian Blaga University Library	Babes-Bolyai University, Faculty of Business
Position	Librarian-Head of the Mathematics and Computer Science Library	Associate Professor

**9. Current job and position:** Associate Professor at the Faculty of Business

Librarian-Head of the Mathematics & Computer Science Library,  
Business Library, Austria Library, Library of the Faculty of law  
and Astronomical Library

**10. Publications (total number): over 60**

- scientific papers (ISI-Web of Science Journals), chapter books and books: 63
- didactic materials: 3

## 10.1 Research papers (selection):

- O. Tunc, C. Tunc, **G. Petruşel**, J.-C. Yao: On the Ulam stabilities of nonlinear integral equations and integro-differential equations, *Math. Methods in the Applied Sciences*, DOI10.1002/mma.9800
- A. Petrusel, **G. Petruşel**, L. Horvath: Maia type fixed point theorems for multi-valued Feng-Liu operators, *Journals of Analysis*, 2023, DOI10.1007/s41478-023-00609-z
- A. Petrusel, **G. Petruşel**, J.-C. Yao: New contributions to fixed point theory for multi-valued Feng-Liu contractions, *Axioms* 2023, 12(3), 274; <https://doi.org/10.3390/axioms12030274> (**ISI- WEB OF SCIENCE**)
- C.L. Mihit, G. Mot, **G. Petruşel**: Ciric type operatoras and common fixed points, *Mathematics* 2022, 10(2022), no. 11, Article number 1947, 10.3390/math10111947 (**ISI- WEB OF SCIENCE**)
- A. Petrusel, **G. Petruşel**, Common fixed point theory for a pair of multivalued operators, *Carpathian J. Math.* 38 (2022), no. 3, 707—714. (**ISI- WEB OF SCIENCE**)
- A. Petrusel, **G. Petruşel**, J.-C. Yao: Common fixed point results for a general class of operators, *J. Nonlinear Convex Anal.* 23 (2022), no. 11, 2687-2694. (**ISI- WEB OF SCIENCE**)
- A. Petruşel, **G. Petruşel**: Fixed point theorems for decreasing convex orbital operators in Hilbert spaces, *J. Fixed Point Theory Appl.*, 23(2021), no. 3, Article number 35, (**ISI- WEB OF SCIENCE**)
- C. Chifu, A. Petruşel, **G. Petruşel**: Fixed point results for non-self nonlinear graphic contractions in complete metric spaces with applications, *J. Fixed Point Theory Appl.* 22(2020), no. 4, Article number 94, (**ISI- WEB OF SCIENCE**)
- E. Karapinar, A. Petrusel, **G. Petrusel**: Frum-Ketkov type multivalued operators, *Carpathian J. Math.*, 37(2021), 203-210. (**ISI- WEB OF SCIENCE**)
- A. Petruşel, **G. Petruşel**, 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 Appl.*, 21(2019), no. 3, DOI: 10.1007/s11784-019-0711-1. (**ISI- WEB OF SCIENCE**)
- A. Petruşel, **G. Petruşel**, J.-C. Yao: Multi-valued graph contraction principle with applications, *Optimization*, 2019, DOI: 10.1080/02331934.2019.1633652. (**ISI- WEB OF SCIENCE**)
- A. Petruşel, **G. Petruşel**: Coupled fractal dynamics via Meir-Keeller operators, *Chaos Solitons & Fractals* 122(2019), 206-212. (**ISI- WEB OF SCIENCE**)
- A. Petruşel, **G. Petruşel**: Some variants of the contraction principle for multi-valued operators, generalizations and applications, *J. Nonlinear Convex Anal.* 20(2019), no. 10, 2187-2203. (**ISI- WEB OF SCIENCE**)
- A. Petruşel, **G. Petruşel**, J.-C. Yao: Coupled fixed point theorems in quasimetric spaces without monotonicity, *Carpathian J. Math.* 35(2019), 185-192. (**ISI- WEB OF SCIENCE**)
- A. Petruşel, **G. Petruşel**: Fixed points, coupled fixed points and best proximity points for cyclic operators, *J. Nonlinear Convex Anal.* 20(2019), no. 8, 1637-1646. (**ISI- WEB OF SCIENCE**)

A. Petruşel, **G. Petruşel**, J.-C. Yao: Pseudo-contractivity and metric regularity in fixed point theory, *J. Optim. Th. Appl.* 180(2019), 5-18. **(ISI- WEB OF SCIENCE)**

A. Petruşel, **G. Petruşel**, J.-C. Yao: Fixed points and coupled fixed points for graphic contractions in complete b-metric spaces, *J. Nonlinear Convex Anal.* 19(2018), no. 11, 1869-1891. **(ISI- WEB OF SCIENCE)**

A. Petruşel, **G. Petruşel**, J.-C. Yao: Variational analysis concepts in the theory of multi-valued coincidence problems, *J. Nonlinear Convex Anal.*, 19(2018), 935-958. **(ISI- WEB OF SCIENCE)**

A. Petruşel, **G. Petruşel**: A study of a general system of operator equations in  $b$ -metric spaces via the vector approach in fixed point theory, *J. Fixed Point Theory and Appl.*, 19(2017), no. 3, 1793-1814. **(ISI- WEB OF SCIENCE)**

A. Petruşel, **G. Petruşel**, J.-C. Yao: Fixed point and coincidence point theorems in b-metric spaces with applications, *Appl. Anal and Discrete Math.*, 11(2017), 199-215. **(ISI- WEB OF SCIENCE)**

C. Chifu, **G. Petruşel**: Fixed point results for multi-valued Hardy-Rogers contractions in b-metric spaces, *Filomat*, 31(2017), 2499-2507. **(ISI- WEB OF SCIENCE)**

A. Petruşel, **G. Petruşel**, J.-C. Yao: A study of a system of operator inclusions via a fixed point approach and applications to functional-differential inclusions, *Carpathian Journal of Mathematics*, 32 (2016), No. 3, 349 – 361, **(ISI- WEB OF SCIENCE)**

M.-F. Bota, A. Petrusel, **G. Petruşel**, B. Samet: Coupled fixed point theorems for single-valued operators in b-metric spaces, *Fixed Point Theory and Applications* 2015, 2015:231, **(ISI- WEB OF SCIENCE)**

A. Petrusel, **G. Petruşel**: 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. **(ISI- WEB OF SCIENCE)**

Y. Su, W. Gao and **G. Petruşel**: On the triangular condition in probabilistic metric spaces and related results in fixed point theory, *Journal of Nonlinear and Convex Analysis*, 17(2016), no.9, 1813-1830. **(ISI- WEB OF SCIENCE)**

M. Abbas, A. Basit, **G. Petruşel**: Fixed points of set-valued contractions in partial metric spaces endowed with a graph, *Carpathian Journal of Mathematics*, 30(2014) nr. 2, 129-137. **(ISI- WEB OF SCIENCE)**

C. Chifu, **G. Petruşel**: Fixed points for multivalued contractions in b-metric spaces with applications to fractals, *Taiwanese Journal of Mathematics*, 18(2014) no. 5, 1345-1364. **(ISI- WEB OF SCIENCE)**

C. Chifu, **G. Petruşel**: New results on coupled fixed point theory in metric spaces endowed with a directed graph, *Fixed Point Theory and Applications* 014, 2014:151. **(ISI- WEB OF SCIENCE)**

M. Boriceanu-Bota, T. P. Petru, **G. Petruşel**, Hyers-Ulam stability and applications in gauge spaces, *Miskolc Math. Notes* 14(2013), no.1, 41-47. **(ISI- WEB OF SCIENCE)**

T. Lazăr, **G. Petruşel**, Fixed points for non-self operators in gauge spaces, *J. Nonlinear Sci. Appl.* 6(2013), no. 1, 29-34. **(ISI- WEB OF SCIENCE)**

A. Petruşel, **G. Petruşel**, Multivalued Picard operators, *J. Nonlinear Convex Anal.*, 13(2012), no. 1, 157-171. (ISI- WEB OF SCIENCE)

C. Chifu, **G. Petruşel** Fixed-point results for generalized contractions on ordered gauges spaces with applications, *Fixed Point Theory and Applications*, 2011, Article ID 979586, 10 pages doi:10.1155/2011/979586. (ISI- WEB OF SCIENCE)

**G. Petruşel**, I. Luca, Strict fixed point results for multivalued contractions on gauge spaces, *Fixed Point Theory* 11 (2010): no. 1, 119-124. (ISI- WEB OF SCIENCE)

**G. Petruşel**, Fixed point results for multivalued contractions on ordered gauge spaces, *Cent. Eur. J. Math.* 7(2009), no. 3 520-528. (ISI- WEB OF SCIENCE)

## CHAPTER BOOKS :

- **A. Petruşel, G. Petruşel**: Coupled fixed points and coupled coincidence points via fixed point theory, in *Math. Anal. And Appl. Selected Topics* (Michael Ruzhansky, Hemen Dutta, Ravi P. Agarwal-Eds.) Wiley & Sons, 2018, 661-707.

## BOOKS :

- T. Lazăr, V. Lazăr, **G. Petruşel**: *Applied Mathematics in Economics* (second edition), Risoprint 2014, 240 p.
- Cristian Chifu, **Gabriela Petruşel**: *Applied Mathematics in Business*, Casa Cărţii de Ştiinţă, Cluj-Napoca 2012, 240 p.
- T. Lazăr, V. Lazăr, **G. Petruşel**: *Applied Mathematics in Economics*, Casa Cărţii de Ştiinţă Cluj-Napoca, 2009.
- Ioan A. Rus, Adrian Petrusel, **Gabriela Petruşel**: *Fixed Point Theory*, Cluj University Press, 2008, 509 p.
- Ghiocel Moş, Adrian Petrusel, **Gabriela Petruşel**: *Topics in Multivalued Analysis and Applications to Mathematical Economics*, House of the Book of Science, Cluj-Napoca, 2007.
- Ioan A. Rus, Adrian Petruşel, **Gabriela Petruşel**: *Fixed Point Theory 1950-2000 - Romanian Contributions*, House of the Book of Science, Cluj-Napoca, 2002.
- **Gabriela Petruşel**: *Fixed Point Structure Theory in Multi-valued Analysis*, Ed. Casa Cărţii de Ştiinţă Cluj-Napoca, 2016, 106 pp.

## 11. Foreign languages: English

**12. Other competences: Reviewer** for *Amer. Math. Soc.*, *European Math. Soc.* (*Zentralblatt fur Mathematik*) and for several journals as: *Fixed Point Theory and Applications*, *J. Fixed Point Theory and Appl.*, *Abstract and Applied Analysis*, *Nonlinear Analysis*, *Applied Math. Letters*, *Fixed Point Theory*, *Miskolc Math. Notes*, *J. Nonlinear Sci. Appl.*, *J. Function Spaces*, *Filomat*, *SYNASC – Web of Science Proceedings* etc.

## 13. Elaboration of and participation in national/ international projects

Project	Position	Period
1. Research Grant “Qualitative Properties of Dynamical Systems”, Director of the grant: Prof. Adrian Petrusel	Team member	2005-2008
2. International grant ”Methods of nonlinear analysis in solving of problems of control and optimization” MOST 103-2923-E-039-001-MY3, 2015-2016 Taiwan, Director of the grant: Prof. Jen-Chih Yao	Visiting researcher	2015-2016
3. International grant “On solution methods for equilibrium and optimization problems on	Visiting researcher	2017-2018 2019-2020 2022-2023

Project	Position	Period
manifolds”, MOST 105-2115-M-039 -002 - MY3, Taiwan, Director of the grant: Prof. Jen-Chih Yao		

**14. Others (awards, distinctions, etc.):**

- **Babeş-Bolyai University Prize 2002 for the book:** Ioan A Rus, Adrian Petruşel, **Gabriela Petruşel:** Fixed Point Theory 1950-2000 - Romanian Contributions, House of the Book of Science, Cluj-Napoca, 2002.

- **Babeş-Bolyai University Prize 2016 for Excellency in the Didactic Activity.**

- **Google Scholar H-index: 16, Google Scholar citations: over 1500;**

- **Web of Science H-index: 15, Web of Science citations: over 640.**

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Assoc. Prof. Gabriela Petruşel, Ph.D.