

# Curriculum Vitae

Prof. Dr. habil. Mihai POSTOLACHE,  
Department of Mathematics & Informatics  
University "Politehnica" of Bucharest  
313 Splaiul Independenței, 060042 Bucharest (RO)  
Email: [mihai@mathem.pub.ro](mailto:mihai@mathem.pub.ro)

## 1 HIGHEST EDUCATIONS

- Habilitation (Mathematics), University Politehnica of Bucharest, 2013.
- Ph.D. (Mathematics), University Babeș-Bolyai of Cluj-Napoca, 1992.
- B.A. (Computer Science), University Politehnica of Bucharest, June 1988.
- B.A. (Mathematics), University "Al. I. Cuza" in Iași, June 1979.

## 2 ACADEMIC/RESEARCH EMPLOYMENT

- Senior Researcher, Romanian Academy, Gh. Mihoc-C. Iacob Institute of Mathematical Statistics and Applied Mathematics, February 2018 to present.
- Visiting Chair Professor, Center for General Education, China Medical University, Taichung 40402, Taiwan, November 2016 to present.
- Full Professor, Department of Mathematics I, University Politehnica of Bucharest, October 2001 to present.
- Associate Professor, Department of Mathematics I, University Politehnica of Bucharest, October 1997 to September 2001.
- Lecturer, Department of Mathematics I, University Politehnica of Bucharest, October 1993 to September 1997.
- Assistant Professor, Department of Mathematics I, University Politehnica of Bucharest, October 1990 to September 1993.
- Mathematician (research), Institute for Power Studies and Design, Bucharest, October 1979 to September 1990.

## 3 MANAGERIAL WORK

- Head, Department of Mathematics and Informatics, University Politehnica of Bucharest, March 2012 to present.

## 4 ADMINISTRATIVE EMPLOYMENT

- Member of the Senate of the University Politehnica of Bucharest, March 2012 to present.
- Member of the Faculty of Applied Sciences Council at University Politehnica of Bucharest, March 2008 to present.

## 5 TEACHING EXPERIENCE

- Numerical Analysis (one semester lecture),
- Differential Equations (one semester lecture),
- Mathematical Analysis (one year lecture),
- Numerical Methods and Mathematical Statistics (one semester lecture),
- Probabilities and Statistics (one semester lecture),
- Numerical Modeling and Geometric Integrators (one year lecture).

## 6 RESEARCH DIRECTIONS

- Nonexpansive mappings, and their generalizations (47H09)
- Accretive operators, dissipative operators, etc. (47H06)
- Equations involving nonlinear operators (47J05)
- Methods for solving nonlinear operator equations (47J25)
- Equations with nonlinear operators (65J15)
- Fixed-point theorems (47H10); Fixed-point and coincidence theorems (54H25)
- Monotone operators (with respect to duality) (47H05); Set-valued operators (47H04)
- Convexities, generalizations (26B25); Pareto optimality, etc., applications to economics (58E17)
- Optimization and variational techniques (65K10); Multi-objective and goal programming (90C29)
- Minimax problems (49J35); Nonlinear programming (90C30); Computational methods (93B40)

## 7 HONORS AND AWARDS

- Highly Cited Researcher (2017), Thomson Reuters (Clarivate Analytics);
- Highly Cited Researcher (2016), Thomson Reuters (Clarivate Analytics);
- Japan Society for the Promotion of Science (1996); March 28 - June 26; Dynamical Systems.

## 8 PHD THESES COMPLETED

- (2015): Fixed Points for Classes of Nonlinear Operators.
- (2018): Iteration Theory, Continuous Optimization and non-Newtonian Calculus.
- (2018): Results in Fixed Point Theory and Iteration Processes with Applications.

## 9 EXTERNAL EXAMINER

- COMSATS Institute of Information Technology, Islamabad;
- Lahore University of Management Science, Lahore;
- International Islamic University, Islamabad;
- Botswana University, Gaborone;
- University Transilvania of Braşov;
- Technical University of Civil Engineering of Bucharest;

- "Gheorghe Mihoc-Caius Iacob" Institute of Romanian Academy;
- Politehnica University Timisoara;
- Technical University of Cluj-Napoca.

## 10 ASSESSMENT OF PROJECTS

- (2017) Innovation fund (Republic of Serbia): MINI GRANTS Program (eight projects) & MATCHING GRANTS Program (eight projects).
- (2018) Innovation fund (Republic of Serbia): MINI GRANTS Program (six projects).

## 11 PUBLICATIONS

### 11.1 RECENT PUBLISHED ARTICLES (SELECTIVE)

1. Yao, Y, Liou, YC, Postolache, M: Self-adaptive algorithms for the split problem of the demicontractive operators. *Optimization* **67**(2018), No. 9, 1309-1319.
2. Nazam, M, Arshad, M, Postolache, M: Coincidence and common fixed point theorems for four maps satisfying  $(\alpha_s, \mathbf{F})$ -contractions. *Nonlinear Anal. Modelling Control* **23**(2018), No. 5, 664-690.
3. Dadashi, V, Postolache, M: Hybrid proximal point algorithm and applications to equilibrium problems and convex programming. *J. Optim. Theory Appl.* **174**(2017), No. 2, 518-529.
4. Ali, MU, Kamran, T, Postolache, M: Solution of Volterra integral inclusion in  $b$ -metric spaces via new fixed point theorem. *Nonlinear Anal. Modelling Control* **22**(2017), No. 1, 17-30.
5. Yao, Y, Leng, L, Postolache, M, Zheng, X: Mann-type iteration method for solving the split common fixed point problem. *J. Nonlinear Convex Anal.* **18**(2017), No. 5, 875-882.
6. Yao, Y, Postolache, M, Liou, YC, Yao, Z: Construction algorithms for a class of monotone variational inequalities. *Optim. Lett.* **10**(2016), No. 7, 1519-1528.
7. Thakur, BS, Thakur, D, Postolache, M: A new iterative scheme for numerical reckoning fixed points of Suzuki's generalized nonexpansive mappings. *Appl. Math. Comput.* **275**(2016), 147-155.
8. Saluja, GS, Postolache, M, Kurdi, A: Convergence of three-step iterations for nearly asymptotically nonexpansive mappings in  $CAT(k)$  spaces. *J. Inequal. Appl.* **2015**, Art. No. 156 (2015).
9. Dewangan, R, Thakur, BS, Postolache, M: Strong convergence of asymptotically pseudocontractive semigroup by viscosity iteration. *Appl. Math. Comput.* **248**(2014), 160-168.
10. Yao, Y, Postolache, M, Kang, SM: Strong convergence of approximated iterations for asymptotically pseudocontractive mappings. *Fixed Point Theory Appl.* **2014**, Art. No. 100 (2014).
11. Thakur, BS, Thakur, D, Postolache, M: New iteration scheme for numerical reckoning fixed points of nonexpansive mappings. *J. Inequal. Appl.* **2014**, Art. No. 328 (2014).
12. Thakur, BS, Dewangan, R, Postolache, M: Strong convergence of new iteration process for a strongly continuous semigroup of asymptotically pseudocontractive mappings. *Numer. Funct. Anal. Optim.* **34**(2013), No. 12, 1418-1431.
13. Aydi, H, Postolache, M, Shatanawi, W: Coupled fixed point results for  $(\psi, \phi)$ -weakly contractive mappings in ordered  $G$ -metric spaces. *Comput. Math. Appl.* **63**(2012), No. 1, 298-309.

14. Yao, Y, Postolache, M: Iterative methods for pseudomonotone variational inequalities and fixed point problems. *J. Optim. Theory Appl.* **155**(2012), No. 1, 273-287.
15. Pitea, A, Postolache, M: Duality theorems for a new class of multitime multiobjective variational problems. *J. Glob. Optim.* **54**(2012), No. 1, 47-58.
16. Pitea, A, Postolache, M: Minimization of vectors of curvilinear functionals on the second order jet bundle. Necessary conditions. *Optim. Lett.* **6**(2012), No. 3, 459-470.
17. Pitea, A, Postolache, M: Minimization of vectors of curvilinear functionals on the second order jet bundle. Sufficient efficiency conditions. *Optim. Lett.* **6**(2012), No. 8, 1657-1669.
18. Olatinwo, MO, Postolache, M: Stability results for Jungck-type iterative processes in convex metric spaces. *Appl. Math. Comput.* **218**(2012), No. 12, 6727-6732.
19. Aydi, H, Karapinar, E, Postolache, M: Tripled coincidence point theorems for weak  $\phi$ -contractions in partially ordered metric spaces. *Fixed Point Theory Appl.* **2012**, Art. No. 44 (2012).
20. Haghi, RH, Postolache, M, Rezapour, Sh: On T-stability of the Picard iteration for generalized  $\varphi$ -contraction mappings. *Abstr. Appl. Anal.* Vol. **2012**, ID: 658971 (2012).

## 11.2 PUBLISHED BOOKS (SELECTIVE)

1. Postolache, M: *Mathematical Analysis (Theory and Applications) (FIFTH EDITION)*, Fair Partners, Bucharest, 2014 (Romanian).
2. Bercu, G, Matsuyama Y, Postolache, M: *Hessian Metrics and Ricci Solitons*, Fair Partners, Bucharest, 2011.
3. Tevy, I, Postolache, M: *Riemannian Integral. Theory and Applications*, Fair Partners, Bucharest, 2005 (Romanian).
4. Udriște, C, Postolache, M: *Atlas of Magnetic Geometric Dynamics*, Geometry Balkan Press, Bucharest, 2001.
5. Udriște, C, Postolache, M: *Magnetic Fields Generated by Piecewise Rectilinear Circuits*, Geometry Balkan Press, Bucharest, 1999.

## 11.3 GUEST EDITOR

1. *Fixed Point, Optimization, and Applications*. *Mathematics* **x**(2019), No. x; with Yao, J-C, and Yao, YH.
2. *Recent Advances in Fixed Point Theory for Set Valued Operators with Related Applications*. *Commun. Math. Appl.* **9**(2018), No. 1; with Ali, MU, Altun, I, and Kamran, T.

# 12 LECTURES AND VISITS

## 12.1 KENOTE/INVITED SPEAKER

1. On multi-step iteration processes, China Medical University of Taichung, May 2018.
2. A pleading for numerical reckoning fixed points of some classes of nonlinear operators, Government College University of Lahore, November 2017.

3. On recent iteration processes for numerical reckoning fixed points of nonlinear operators, China Medical University of Taichung, May 2017.

## 12.2 INVITED LECTURES

1. Advances on Hessian structures and Ricci solitons, Chuo University of Tokyo, May 2011.
2. Integrator for Lagrangian dynamics, University of Thessaloniki, June 2001.
3. On  $h$ -paths in General Relativity, University of Athens, August 1997.
4. On the image encoding with random transformations, Shonan Institute of Technology, May 10, 1996 and Hokkaido Tokai University, May 31, 1996.
5. On a chaos for a magnetic dynamical system, University of Tsukuba, Institute of Information Sciences, October 13, 1995.
6. On the iteration of rational mappings from the viewpoint of fractal aspects, Shonan Institute of Technology, November 7, 1995.
7. Romanian special education, Fukushima University, October 1995.
8. University education in Romania, Chiba Institute of Technology, 1995 and 1996.

## 12.3 VISITING PROFESSOR

1. China Medical University of Taichung, November 2016 - present.
2. Chuo University of Tokyo, May 2011; three weeks.
3. Aristotle University of Thessaloniki, June 2001; two weeks.
4. Hokkaido Tokai University, 27 May 1996-3 June 1996.
5. Tsukuba University, 14 September 1995-20 November 1995.

# 13 PROFESSIONAL SERVICE

## 13.1 MEMBER OF MANAGERIAL BOARDS

1. Fair Partners Society for the Promotion of Science; President: since 1998.
2. Balkan Society of Geometers; Vice president: 2000-2004; 2008-present.

## 13.2 MEMBER OF EDITORIAL BOARDS

1. Member of Editorial Board: U Politeh Buch Ser A (SCIE).
2. Member of Editorial Committee: J Math Anal (SCIE).
3. Associate Editor: Series "BSG Proceedings", Geometry Balkan Press (No. 3, No. 4 and No. 5).
4. Editor in Chief: Series "Handbooks. Treatises. Monographs", Fair Partners Publishers.

## 14 SCIENTIFIC REFEREE

Acta Mathematica Scientia; Analysis and Mathematical Physics; Applied Mathematics Letters; Applied Mathematics and Computation; Applied Numerical Mathematics; Arabian Journal of Mathematics; Carpathian Journal of Mathematics; Central European Journal of Mathematics; Demonstratio Mathematica; Filomat; Fixed Point Theory and Applications; Journal of Inequalities and Applications; Journal of Inequalities and Special Functions; Journal of King Saud University; Journal of Mathematical Analysis; Journal of Nonlinear Functional Analysis; Mathematica Bohemica; Mathematics; Neural Computing and Applications; Nonlinear Analysis Modeling and Control; Numerical Algorithms; Numerical Functional Analysis and Optimization; Optimization; Optimization Letters; Optimal Control, Applications and Methods; Quaestiones Mathematicae; Scientific Bulletin UPB, Series A: Applied Mathematics and Physics; Symmetry-Basel; Transactions of A. Razmadze Mathematical Institute; Turkish Journal of Mathematics; Vietnam Journal of Mathematics; Abstract and Applied Analysis; Analele Universității "Al. I. Cuza" din Iași; Analele Universității București; Annales Mathematicae Silesianae; Balkan Journal of Geometry and Its Applications; Journal of Advanced Mathematical Studies; Journal of Nonlinear Sciences and Applications.

## 15 SCIENTOMETRIC DATA

- h-index=21;
- Citations in Web of Science: 1025 [without self-citations (7.06%)];
- Average citations per item in Web of Science: 12.99.

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