Curriculum Vitae

Prof. Dr. habil. Mihai Postolache,
Department of Mathematics & Informatics
University "Politehnica" of Bucharest
313 Splaiul Independenţei, 060042 Bucharest (RO)
Email: emscolar@yahoo.com; mihai@mathem.pub.ro
Telephone: +40722.798.417

1 Education

• Habilitation Thesis (Mathematics), University Politehnica of Bucharest, 2013.

• Ph.D. (Mathematics), University Babeş-Bolyai, June 1992 (Advisor: Prof. Dr. Gh. Atanasiu).

• B.A. (Computer Science), University Politehnica of Bucharest, June 1988.

• B.A. (Mathematics), University "Al. I. Cuza" in Iaşi, June 1979.

2 Employment

• Head, Department of Mathematics and Informatics, University Politehnica of Bucharest, March 2012 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 Teaching Experience

• 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).

4 Research Directions

- Monotone operators (with respect to duality) (47H05); Set-valued operators (47H04)
- Methods for solving nonlinear operator equations (47J25)
- Equations with nonlinear operators (65J15)
- Fixed-point theorems (47H10); Fixed-point and coincidence theorems (54H25)
- 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)
- Equations and systems on manifolds (34C40); Special Riemannian manifolds (53C25)
- Solitons (35Q51); Soliton theory, asymptotic behaviour of solutions (27K40)

5 PhD Theses Completed

- Alia Kurdi (2017): Iteration Theory, Continuous Optimization and non-Newtonian Calculus;
- Cristiana Ionescu (2015): Fixed Points for Classes of Nonlinear Operators.

6 Awards

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

7 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.

8 Publications and Lectures

8.1 Recent published articles (selective)

1. Dadashi, V, Postolache, M: Hybrid proximal point algorithm and applications to equilibrium problems and convex programming. J. Optim. Theory Appl. DOI: 10.1007/s10957-017-1117-0.

2. 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.

3. Saluja, GS, Postolache, M: Three-step iterations for total asymptotically nonexpansive mappings in CAT(0) spaces. Filomat **31**(2017), No. 5, 1317-1330.

4. 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.

5. 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.

6. 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).

7. Dewangan, R, Thakur, BS, Postolache, M: Strong convergence of asymptotically pseudocontractive semigroup by viscosity iteration. Appl. Math. Comput. **248**(2014), 160-168.

8. Yao, Y, Agarwal, RP, Postolache, M, Liu, YC: Algorithms with strong convergence for the split common solution of the feasibility problem and fixed point problem. Fixed Point Theory Appl. **2014**, Art. No. 183 (2014).

9. Yao, Y, Postolache, M, Kang, SM: Strong convergence of approximated iterations for asymptotically pseudocontractive mappings. Fixed Point Theory Appl. **2014**, Art. No. 100 (2014).

10. 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).

11. 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.

12. 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.

13. Yao, Y, Postolache, M: Iterative methods for pseudomonotone variational inequalities and fixed point problems. J. Optim. Theory Appl. **155**(2012), No. 1, 273-287.

14. Pitea, A, Postolache, M: Duality theorems for a new class of multitime multiobjective variational problems. J. Glob. Optim. **54**(2012), No. 1, 47-58.

15. 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.

16. 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.

17. Olatinwo, MO, Postolache, M: Stability results for Jungck-type iterative processes in convex metric spaces. Appl. Math. Comput. **218**(2012), No. 12, 6727-6732.

18. Haghi, RH, Postolache, M, Rezapour, Sh: On T-stability of the Picard iteration for generalized φ-contraction mappings. Abstr. Appl. Anal. Vol. **2012**, ID: 658971 (2012).

19. Aydi, H, Karapınar, 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. Bercu, G, Postolache, M: Classes of gradient Ricci solitons. Int. J. Geom. Methods Mod. Phys. **8**(2011), No. 4, 783-796.

21. Bercu, G, Corcodel, C, Postolache, M: Iterative geometric structures. Int. J. Geom. Methods Mod. Phys. **7**(2010), No. 7, 1103-1114.

22. Pitea, A, Postolache, M: Advances on affine vector fields. Carpathian J. Math. **25**(2009), No. 2, 197-202.

8.2 Invited Lectures

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

2. Advances on Hessian structures and Ricci solitons, Chuo University of Tokyo, May 2011.

3. Integrator for Lagrangian dynamics, University of Thessaloniki, June 2001.

4. On h-paths in General Relativity, University of Athens, August 1997.

5. On the image encoding with random transformations, Shonan Institute of Technology, May 10, 1996 and Hokkaido Tokai University, May 31, 1996.

6. On a chaos for a magnetic dynamical system, University of Tsukuba, Institute of Information Sciences, October 13, 1995.

7. On the iteration of rational mappings from the viewpoint of fractal aspects, Shonan Institute of Technology, November 7, 1995.

8. Romanian special education, Fukushima University, October 1995.

9. University education in Romania, Chiba Institute of Technology, 1995 and 1996.

8.3 Visiting Professor

1. China Medical University of Taichung, February 2017 - January 2018.

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.

9 Professional Service

9.1 Member of managerial board

1. Balkan Society of Geometers; Vice president: 2000-2004; 2008-present.

2. Fair Partners Society; President 1998-present.

9.2 Member of editorial board

1. Member of Editorial Board: U Politeh Buch Ser A (SCIE)
2. Member of Editorial Board: J Math Anal (SCIE)
3. Associate Editor: Series "BSG Proceedings", Geometry Balkan Press (BSG Proc. No. 3, No. 4 and No. 5).
4. Editor in Chief: Series "Handbooks. Treatises. Monographs", Fair Partners Publishers (over 120 issues between 1998-present).

10 Scientific Referee

Acta Mathematica Scientia; 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 Nonlinear Functional Analysis; Journal of Inequalities and Applications; Journal of Mathematical Analysis; Journal of King Saud University; Neural Computing and Applications; Nonlinear Analysis Modeling and Control; Numerical Algorithms; Numerical Functional Analysis and Oprimization; Optimization; Optimization Letters; Optimal Control, Applications and Methods; Scientific Bulletin UPB, Series A: Applied Mathematics and Physics; Turkish Journal of Mathematics; Abstract and Applied Analysis; Analele Universităţii "Al. I. Cuza" din Iaşi; Analele Universităţii Bucureşti; Balkan Journal of Geometry and Its Applications; Vietnam Journal of Mathematics; Journal of Advanced Mathematical Studies; Annales Mathematicae Silesianae.

11 Scientometric Data

- h-index=17,
- Citations in Web of Science: 674 (without self-citations).

Prof. Dr. habil. Mihai Postolache

Date: June 28, 2017