



Dan Ricinski

PhD Researcher in Mathematics

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Summary

PhD student in Mathematics with a strong focus on Functional Analysis, Numerical Analysis and Fixed Point Theory. Currently engaged in advanced research on generalized contractions, generalized nonexpansive mappings and iterative processes. Experienced in academic writing and mathematical modeling. Passionate about contributing to the development of modern fixed point results with applications to nonlinear analysis. Interested in the interaction between mathematical theory and modern computational and AI-based methods.

Work Experience

PhD Researcher in Mathematics, <i>National University of Science and Technology Politehnica Bucharest</i>	2021 – Present
Mathematics Teacher, <i>Secondary School No. 308, Bucharest</i>	2019 – Present

Education

PhD in Mathematics (in progress), <i>National University of Science and Technology Politehnica Bucharest</i> (in progress)	2021 – Present
Master's Degree in Applied Mathematics - Optimal Dynamical Systems and Financial Models for Economy (9.80), <i>National University of Science and Technology Politehnica Bucharest</i>	2019 – 2021
Bachelor's Degree in Mathematics (10), <i>University of Bucharest, Faculty of Mathematics and Computer Science, Romania</i>	2016 – 2019

Publications

Reckoning common solutions of nonlinear problems with application to fractal generation, <i>Chaos, Solitons & Fractals</i> , 207(2026), Art. No. 118050.	2026
A new strong convergent twostep inertial algorithm for split common fixed point problems, <i>U. Politeh. Buch. Ser A</i> , 88(2026), No. 1, 3-16.	2026
On SRJ iteration of E-operators in hyperbolic spaces with numerical analysis and application, <i>Rend. Circ. Mat. Palermo Ser. 2</i> , 75 (2026), Art. No. 45.	2026
Istrăţescu type contractions on new extended b-metric spaces, <i>Filomat</i> , 40 (2026), No. 6, 2225-2238.	2026

Analysis of the bilateral multivalued contraction and associated results,
U. Politeh. Buch. Ser A, 87 (2025), No. 1.

2025

Convex contractions on extended b-metric spaces,
AIMS Math. 9 (2024), No. 7, 18163-18185.

2024

Skills

- LaTeX
 - Mathematical Modeling
- Matlab
 - Numerical Analysis

Languages

Romanian	English	French
Native Speaker		

Research directions

- fixed-point theorems**
- nonexpansive mappings, and their generalizations**
- equations involving nonlinear operators**
- methods for solving nonlinear operator equations**

Conference Talks

- International Workshop on Applied Analysis and Optimization 2025 (IWAAO2025)**
- International Conference on Non-Linear Analysis and Optimization With Workshop on Fixed Point Theory and its Applications (ICAN- OPT_NEPAL_2025)**
- The International Workshop: Nonlinear Analysis & Its Applications (IWNAA2025)**

Scientific referee

Heliyon Journal
Peer reviewer for Heliyon, an interdisciplinary open access journal.

Membership

Research Group on Nonlinear Analysis and Optimization,
National University of Science and Technology Politehnica Bucharest