

PERSONAL INFORMATION

(January 2026)

Maria-Magdalena BOUREANU

📍 Department of Mathematics, Faculty of Sciences, University of Craiova, 13 A.I. Cuza Street, 200585, Craiova, Dolj, Romania;

✉ mmboureanu@yahoo.com; magdalena.boureanu@edu.ucv.ro

WEB PAGES and IDs:

Institution: <http://math.ucv.ro/boureanu/>
 Google Scholar: <https://scholar.google.com/citations?user=9fVAa4QAAAAJ>
 ResearchGate: <https://www.researchgate.net/profile/Maria-Magdalena-Boureanu?ev>
 Orcid: <https://orcid.org/0000-0003-2270-823X>
 Brainmap: <https://www.brainmap.ro/maria-magdalena-boureanu>
 IDs: Web of Science Researcher ID: AAC-8935-2020; Scopus ID: 14218887600.

WORK EXPERIENCE

2015 – present **Associate professor**
 University of Craiova, Romania: Department of Mathematics (2025–present);
 Department of Applied Mathematics (2015–2025)

2012 – 2015 **Assistant professor**
 Department of Applied Mathematics, University of Craiova, Romania

2010 – 2012 **Researcher**
 University of Craiova, Romania (CNCSIS Grant PNII-08/2010)

2009 – 2014 **Associated assistant lecturer**
 University of Craiova, Romania: Department of Mathematics (2009–2014);
 Department of Applied Mathematics (2011–2012)

2003 – 2005; 2006 – 2007 **Teacher**
 "Carol I" National College, Craiova, Romania (2006–2007);
 "Dimitrie Filăsanu" Scholar Group, Filiași, Romania (2003–2005).

EDUCATION AND TRAINING

2023 **Habilitation in Mathematics**
 University of Craiova, Romania (diploma received in June 2023)
 Habilitation thesis: "Elliptic problems driven by generalized Laplace operators"

2005–2009 **Ph.D Degree – Doctor in mathematics** ISCED 8
 University of Craiova, Romania (diploma received in Sept. 2009)
 Ph.D thesis: "Topological Methods in the Study of Boundary Value Problems", Scientific Advisor: Prof. Vicențiu Rădulescu

10/2004–06/2006 **Master's Degree, "Dynamical Systems and Problems of Evolution"** ISCED 7
 University of Craiova, Romania

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	C1	C1	B2	B2	B1
Italian	C1	C2	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference (CEF) level

SCIENTIFIC PUBLICATIONS

33. M.-M. Boureanu, A. Chinnì and B. Di Bella, Fourth-order problems on $W^{2,p(\cdot)}$ -extension domains involving Leray-Lions type operators, Journal of Elliptic and Parabolic Equations (2025) <https://doi.org/10.1007/s41808-025-00423-7>
32. M.M. Boureanu, L. Dafinoiu and M. Sofonea, Convergence and well-posedness analysis of a nonlinear elliptic system, Annals of the University of Craiova, Math. Comp. Sci. Ser., 52 (2025), 566–581. <http://inf.ucv.ro/ami/index.php/ami/article/view/2249>
31. M.M. Boureanu, Multiple solutions for two general classes of anisotropic systems with variable exponents, Journal d'Analyse Mathématique, 150 (2023), 685–735. <https://doi.org/10.1007/s11854-023-0287-y>
30. M.M. Boureanu and A. Vélez-Santiago, Applied higher-order elliptic problems with nonstandard growth structure, Applied Mathematics Letters, 123 (2022) 107603, <https://doi.org/10.1016/j.aml.2021.107603>
29. M.M. Boureanu and A. Vélez-Santiago, Fine regularity for elliptic and parabolic anisotropic Robin problems with variable exponents, J. Differential Equations 266 (2019), 8164–8232.
28. M.M. Boureanu, Fourth-order problems with Leray-Lions type operators in variable exponent spaces, Discrete and Continuous Dynamical Systems – S, 12 (2019), 231–243.
27. M.M. Boureanu, On some variable exponent problems with no-flux boundary condition, invited chapter for Current Trends in Mathematical Analysis and Its Interdisciplinary Applications, Birkhauser (Eds. H. Dutta, L. D.R. Kočinac, H. M. Srivastava), 2019, 909 pages.
26. M.M. Boureanu, V. Rădulescu and D. Repovš, On a $p(\cdot)$ -biharmonic problem with no-flux boundary condition, Computers and Mathematics with Applications, 72 (2016), 2505–2515.
25. M.M. Boureanu, A new class of nonhomogeneous differential operators and applications to anisotropic systems, Complex Variables and Elliptic Equations, 61 (2016), 712–730.
24. M.M. Boureanu and A. Matei, Singular and degenerate boundary value problems related to the electricity theory, Mathematical Problems in Engineering, 2015 (2015), Article ID 865261, 6 pages.
23. M.M. Boureanu and C. Udrea, No-flux boundary value problems with anisotropic variable exponents, Communications on Pure and Applied Analysis, 14 (2015), 881–896.
22. M.M. Boureanu, A. Matei and M. Sofonea, Nonlinear problems with $p(\cdot)$ -growth conditions and applications to antiplane contact models, Advanced Nonlinear Studies, 14 (2014), 295–313.
21. M.M. Boureanu, On the variable exponent spaces and their applications, chapter in Qualitative Study of Differential Equations, Geometrical and Dynamical Aspects of Some Mechanical Systems, Numerical Treatment, and Applications (430 pages), Ed. Universitaria Press Craiova, 2014.
20. M.M. Boureanu, C. Udrea and D.N. Udrea, Anisotropic problems with variable exponents and constant Dirichlet condition, Electron. J. Diff. Equ., 2013 (2013), no. 220, 1–13.
19. M.M. Boureanu and D.N. Udrea, Existence and multiplicity results for elliptic problems with $p(\cdot)$ -growth conditions, Nonlinear Anal. Real World Applications, 14 (2013) 1829–1844.

18. M.M. Boureanu, B. Noris and S. Terracini, Sub and supersolutions, invariant cones and multiplicity results for p -Laplace equations, AMS - Contemporary Mathematics – Recent Trends in Nonlinear Partial Differential Equations II: Stationary Problems, 595 (2013), 91–119.
17. M.M. Boureanu and V. Rădulescu, Anisotropic Neumann problems in Sobolev spaces with variable exponent, Nonlinear Anal. TMA, 75 (2012), 4471–4482.
16. M.M. Boureanu and F. Preda, Infinitely many solutions for elliptic problems with variable exponent and nonlinear boundary conditions, Nonl. Diff. Eq. and Appl. (NoDEA), 19 (2012), 235–251.
15. M.M. Boureanu, A. Matei and M. Sofonea, Analysis of a contact problem for electroelastic-visco-plastic materials, Communications on Pure and Applied Analysis, 11 (2012), 1185–1203.
14. M.M. Boureanu, Remarks on Neumann boundary value problems with variable exponents, Bulletin of the Transilvania University of Brasov – Series III: Mathematics, Informatics, Physics, 5(54) (2012), 55–66.
13. M.M. Boureanu, Infinitely many solutions for a class of degenerate anisotropic elliptic problems with variable exponent, Taiwanese Journal of Mathematics, 15 (2011), 2291–2310.
12. M.M. Boureanu, P. Pucci and V. Rădulescu, Multiplicity of solutions for a class of anisotropic elliptic equations with variable exponent, Complex Variables and Elliptic Equations, 56 (2011), 755–767.
11. M.M. Boureanu, The Mountain-Pass Theorem and modern applications, Proc. Intern. Stud. Conf. on Pure and Appl. Math., Ed. Univ. A.I. Cuza, Iasi, 2011, 29–40.
10. M.M. Boureanu and A. Matei, Weak solutions for antiplane models involving elastic materials with degeneracies, Zeitschrift für Angewandte Mathematik und Physik (ZAMP), 61 (2010), 73–85.
9. M.M. Boureanu, Critical point methods in degenerate anisotropic problems with variable exponent, Studia Universitatis Babes-Bolyai, LV (2010), no. 4, 27–39.
8. M.M. Boureanu, Existence of solutions for anisotropic quasilinear elliptic equations with variable exponent, Advances in Pure and Applied Mathematics, 1 (2010), 387–411.
7. M.M. Boureanu, Uniqueness of singular radial solutions for a class of quasilinear problems, Bull. Belg. Math. Soc. Simon Stevin, 16 (2009), 665–685.
6. M.M. Boureanu, On the existence and nonexistence of positive entire large solutions for semilinear elliptic equations, An. Șt. Univ. Ovidius Constanța, 17 (2009), 23–36.
5. M.M. Boureanu and M. Mihăilescu, Existence and multiplicity of solutions for a Neumann problem involving variable exponent growth conditions, Glasgow Math. J., 50 (2008), 565–574.
4. M.M. Boureanu, Entire large solutions for logistic-type equations, Annals of the University of Craiova, Math. Comp. Sci. Ser., 35 (2008), 32–40.
3. M.M. Boureanu, Existence of weak nontrivial solutions for a class of nonhomogeneous boundary value problems, Proc. Nat. Session of Stud. Scientific Comm., Iași, 2007, 39–46.
2. M.M. Boureanu, Fraternization in ... Mathematics, Proc. Intern. Conf. of Young Scientists, affiliated to CASC 2006, Kisinev, Republic of Moldova, 2006, 9–15.
1. M.M. Boureanu, Existence of solutions for an elliptic equation involving the $p(x)$ -Laplace operator, Electron. J. Diff. Eqns., 2006 (2006), no. 97, 1–10.

DIDACTIC PUBLICATIONS

5. D. Bălă, M.-M. Boureanu, L.-M. Bucur, C.-P. Dăneș, L. Grecu, F. Munteanu, G. Popescu, M. Racilă, L.-E. Temereancă, C. Vladimirescu, Teste Grilă pentru Proba Scrisă la Matematică a Examenului de Admitere la Licență la Facultatea de Automatică, Calculatoare și Electronică Domeniul Calculatoare și Tehnologia Informației, Ed. Universitaria Craiova, 2024, $i + 446$ pages http://www.en.ace.ucv.ro/pdf/admitere/2024/licenta/Teste_grila_admitere_ACE_UCV.pdf
4. M.M. Boureanu, Mathematical Analysis – course notes (some elementary notions for the future engineers) (2020), online course for first year students https://www.ucv.ro/departamente_academice/dma/activitate_didactica/discipline.php
3. M.M. Boureanu and L.E. Temereancă, Numerical Methods - Info for lab (2021), online material for second year students, https://www.ucv.ro/pdf/departamente_academice/dma/suporturi_curs/Laboratoare_eng_2021.pdf
2. M.M. Boureanu and L.E. Temereancă, A friendly course on Numerical Methods (2020), online course for second year students https://www.ucv.ro/pdf/departamente_academice/dma/suporturi_curs/NM_course.pdf

1. C. Vladimirescu, F. Munteanu, M.M. Boureanu, D. Constantinescu, C.P. Dăneț, A. Florea, L.E. Temereancă, G. Popescu, C. Sterbeți, D. Bălă, 101 Evaluation tests for the writing exam for admission at the Faculty of Automation, Computers and Electronics, Ed. Universitaria Craiova, 2018.

ADDITIONAL INFORMATION

Citations 621 citations on Google Scholar; 484 citations on Scopus; 421 citations on Web of Science.

Hirsch Index 14 on Google Scholar, 12 on Scopus, 11 on Web of Science.

Scholarships

- Research Scholarship financed by Centro de Matematica e Aplicacoes (CMA), Faculty of Sciences and Technology, New University of Lisbon, Portugal (September 8 – October 14, 2015);
- GNAMPA Research Scholarship financed by INDAM (Istituto Nazionale di Alta Matematica "F. Severi"), Universita Milano Bicocca, Italy (February – May, 2011);
- BITDEFENDER postdoctoral scholarship for five months (February–June 2010) at the Institute of Mathematics "Simion Stoilow" of the Romanian Academy (IMAR), Bucharest, Romania;
- Erasmus-Socrates scholarship for three months (March 2003–May 2003) at the University of Aveiro, Portugal;
- Merit Scholarships from University of Craiova during the entire period of studies (B.S., M.S. and Ph.D.).

Awards

- Adelina Georgescu prize for young mathematicians in Applied Mathematics (2018), awarded by ROMAI (The Romanian Society of Applied and Industrial Mathematics) https://www.romai.ro/index_romai_ro.htm
- 11 research papers awarded by UEFISCDI (Executive Unit for Financing Higher Education Research Development and Innovation from Romania), that is, papers 5, 7, 10, 15, 16, 19, 22, 23, 26, 29, 30 from the above list of scientific publications, see <http://uefiscdi.gov.ro/articole/1722/Articole.html> and <https://uefiscdi.gov.ro/premierea-rezultatelor-cercetarii-articole>

Research Grants

- coordinator of project no. 27 "Étude asymptotique d'une classe de problèmes non linéaires dans des domaines perforés" (since 2022) in the framework of the IRN ECO-Math project "Mathematics with Eastern and Central Europe" (Inst. Math. "S. Stoilow" - CNRS-France), <https://www.imar.ro/GDRI/GDRI-ProjRech.html>
- coordinator of project no. 24 "Qualitative study of nonlinear PDE's" (2018-2021) in the framework of the IRN ECO-Math project "Mathematics with Eastern and Central Europe" (Inst. Math. "S. Stoilow" - CNRS-France), <https://www.imar.ro/GDRI/GDRI-ProjRech.html>
- member of the Across Universities Alliance 2025 <https://www.across-alliance.eu/>
- member of the International Project Horizon 2020-RISE-777911;
Coordinator: Dr. G. Tigan;
- member of the Romanian Grant CNCS-UEFISCDI PN-II-RU-TE-2014-4-0657;
Director: Dr. A. Zărnescu
- member of the Marie Curie Grant FP7-PEOPLE-2012-IRSES-316338;
Local Coordinator from University of Craiova: Dr. D. Constantinescu.
- member of the Romanian University of Craiova Grant 19C/27.01.2014;
Coordinator: Dr. C. Vladimirescu.
- member of the Romanian CNCS Grant PNII-ID-PCE-2011-3-0195;
Coordinator: Dr. V. Rădulescu.

- member of the Romanian CNCS – UEFISCDI Grant PN-II-RU-TE-2011-3-0223;
Coordinator: Dr. A. Matei.
- member of the Romanian CNCSIS Grant PNII-55/2008;
Coordinator: Dr. V. Rădulescu.
- member of the Romanian CNCSIS Grant PNII-79/2007;
Coordinator: Dr. V. Rădulescu.

Other Grants

- member of the educational project ROSE – CRAIF (in 2021);
Coordinator: Dr. N.G. Bîzdoacă.
- member of the project „Am ales, FIE – rămân”, FIE-R (“I choose to stay”, FIE-R), part of the educational project ROSE (SGU-N), 24/SGU/NC/I (in 2019);
Coordinator: Dr. I.S. Ivanov;

Research Visits

- Institut Élie Cartan de Lorraine, University of Lorraine, Metz, France, July 17-25, 2025;
- University of Palermo, Italy, March 30—April 09, 2025;
- University of São Paulo, at São Carlos, Brazil, February 15, 2023 – March 21, 2023;
- Institut Élie Cartan de Lorraine, University of Lorraine, Metz, France, November 16-27, 2022;
- University of Waterloo, Waterloo, Ontario, Canada, July 11, 2022 – August 22, 2022;
- University of São Paulo, at São Carlos, Brazil, February 5, 2020 – March 5, 2020;
- University "Jules Verne" of Picardie, Amiens, France, November 22-25, 2019;
- New University of Lisbon, Lisbon, Portugal, September 8 – October 14, 2015;
- Belarusian State University, Minsk, Belarus, June 23 – July 23, 2015;
- University of Nice “Sophia Antipolis”, France, January 20–27, 2013;
- University of Milano Bicocca, Italy, May 2–11, 2012;
- University of Milano Bicocca, Italy, February–May, 2011;
- University of Perpignan, France, November 11–21, 2010;
- Institute of Mathematics “Simion Stoilow” of the Romanian Academy (IMAR), Bucharest, Romania, February–June 2010.

Invited talks at scientific seminars

- *"Variable exponent systems driven by Leray-Lions operators"*, University of Palermo, Italy, April 2025; <https://www.unipa.it/dipartimenti/matematicaeinformatica/struttura/eventi.html>
- *"Fourth-order problems driven by Leray-Lions type operators"*, Institut Élie Cartan de Lorraine, University of Lorraine, Metz, France, November 2022; <https://iecl.univ-lorraine.fr/seminar/pde-and-applications-seminar-metz/>
- *"Anisotropic systems with variable exponents"*, University of Waterloo, Waterloo, Ontario, Canada, July 2022; <https://uwaterloo.ca/applied-mathematics/events/applied-math-seminar-magdalena-boureau-anisotropic-systems>
- *"Higher-order problems with variable exponents"*, University of Puerto Rico at Mayagüez, Mayagüez, Puerto Rico, September 2021 <https://pegasus.uprm.edu/ocolon/colloquium/maria1.pdf>
- *"On the variable exponent spaces and some classes of Robin problems"*, University "Jules Verne" of Picardie, Amiens, France, November 2019 <https://www.lamfa.u-picardie.fr/archives/article/archives-seminaires-a3-2019-2020?lang=fr>

- "On some nonlinear problems with generalized operators and variable exponents", University of Aveiro, Portugal, October 2015 <http://seminargafa.web.ua.pt/pastseminars.html>
- The minicourse "Variable exponent spaces and applications to nonlinear problems", New University of Lisbon, Portugal, September 2015 <https://www.fct.unl.pt/noticias/semana-na-fct/semana-na-fct-14-19-de-setembro>
- "Generalized Lebesgue-Sobolev spaces and generalized operators with variable exponent", Belarusian State University, Minsk, Belarus, June 2015 <http://km.mmf.bsu.by/events/150629-romania.html>
- "On some nonlinear problems involving variable exponents", University of Nice "Sophia Antipolis", France, January 2013 <http://www-math.unice.fr/eaubry/seminar.php>
- "Weak solutions for anisotropic elliptic problems with variable exponent", University of Milano Bicocca, Italy, March 2011;
- The cycle of talks "Boundary value problems for the $p(x)$ -Laplace operator", Potential Theory Seminar, organized by Institute of Mathematics of the Romanian Academy (IMAR) jointly with the University of Bucharest, Romania, March 2010.

Conferences

■ International Conferences and Workshops attended:

48. *The 32nd Conference on Applied and Industrial Mathematics*, CAIM 2025, University Politehnica of Bucharest, September 18-21, 2025, communication entitled "Coupled systems driven by Leray-Lions type operators" <https://www.caim.romai.ro/>
47. *Transdisciplinary approaches to complex systems—Complexity in Mathematics, Physics, Mechanics, Automation, "Across" workshop series*, University of Craiova, June 19-21, 2025, communication entitled "Nonlinear elliptic systems with variable exponents".
46. *Nonsmooth Problems with Applications in Mechanics*, Olomouc, Czech Republic, May 19 - 23, 2025, communication entitled "Existence and regularity results for variable exponent systems" <https://nopam25.upol.cz/>
45. *One-day workshop on PDEs*, University of Messina, April 04, 2025, communication entitled "Fourth-order elliptic problems with variable exponents".
44. *International Conference on Applied Mathematics and Numerical Methods (ICAMNM, fifth edition)*, University of Craiova, Romania, October 25-26, 2024, organizer and communication entitled "Anisotropic Wentzell-type systems with variable exponents" <http://icamnm.ucv.ro/?Home>
43. *The 31st Conference on Applied and Industrial Mathematics*, CAIM 2024, University of Oradea, September 19-22, 2024, communication entitled "Wentzell problems with non-standard growth conditions" <https://www.caim.romai.ro/>
42. *3rd Emerging Trends in Applied Mathematics and Mechanics 2024 (ETAMM 2024)*, University of Coruña, Spain, May 20-24, 2024, communication entitled "Generalized systems with variable exponents" <https://dm.udc.es/etamm24/index.html>
41. *The 30th Conference on Applied and Industrial Mathematics*, CAIM 2023, Iași, September 14-17, 2023, communication entitled "Variable exponent systems with Leray-Lions type operators" <https://www.caim.romai.ro/>
40. *The Tenth Congress of Romanian Mathematicians*, University of Pitești, Romania, June 30 – July 5, 2023, communication entitled "Multiple weak solutions for anisotropic systems with variable exponents" <http://www.imar.ro/congmato10/program.html>
39. *Balkan Mathematics Conference*, University of Pitești, Romania, July 1, 2023, <http://imar.ro/bmc/>
38. *Nonsmooth Problems with Applications in Mechanics*, Stefan Banach International Center, the Institute of Mathematics of the Polish Academy of Sciences, Bedlewo, Poland, June 17-22, 2023, communication entitled "Higher-Order Problems Involving Generalized Differential Operators" <https://23-nonsmooth.confer.uj.edu.pl/start>
37. *Dynamical Systems Seminars*, University of São Paulo, at São Carlos, Brazil, March 9, 2023, communication entitled "On some nonlinear differential problems and their applications".

- 6. *Workshop on Modeling Population Dynamics in Ecology, Environment and Epidemiology*, Fields Institute, Toronto, Canada, August 15-19, 2022. <http://www.fields.utoronto.ca/activities/22-23/population-dynamics>
35. *Workshop on Dynamical systems and their applications*, University of Waterloo, Toronto, Canada, August 16, 2022, communication entitled "A general class of fourth-order problems with applications".
34. *Workshop on Industrial Mathematics and Computer Science*, Craiova, Romania, July 2, 2022, organizer. http://cis01.central.ucv.ro/ICAMNM/?Workshop_on_Industrial_Mathematics_and_Computer_Science
33. *International Conference on Applied Mathematics and Numerical Methods (ICAMNM, fourth edition)*, Craiova, Romania, June 29-July 2, 2022, organizer. <http://cis01.central.ucv.ro/ICAMNM/>
32. *Two days of PDEs in heterogeneous and irregular structures*, University Sapienza of Rome, Italy, June 23-24, 2022, communication entitled "Anisotropic systems governed by nonhomogeneous differential operators"(main speaker). <https://sites.google.com/uniroma1.it/twodaysofpdes>
31. *The 28th Conference on Applied and Industrial Mathematics – CAIM 2021*, online conference, September 17-18, 2021, communication entitled "Multiple weak solutions for higher-order problems". <https://www.caim.romai.ro/>
30. *International Conference on Mathematics and IT: Research and Education (MITRE 2021)*, Kisinev, Moldavian Republic, July 1-3, 2021, communication entitled "Multiple solutions for anisotropic elliptic systems". <http://cecmi.usm.md/MITRE/>
29. *ECMI Webinar "Math for Industry 4.0 - Models, Methods and Big Data"*, December 2 - 3, 2020, <https://www.wias-berlin.de/workshops/MA4DIFA/index.jsp>
28. *International Conference on Applied Mathematics and Numerical Methods (ICAMNM, third edition)*, Craiova, Romania, October 29-31, 2020, organizer and communication entitled "Weak solutions for general elliptic systems". <http://cis01.central.ucv.ro/ICAMNM/>
27. *Workshop on Industrial Mathematics and Computer Science*, Craiova, Romania, October 31, 2020, organizer. http://cis01.central.ucv.ro/ICAMNM/?Workshop_on_Industrial_Mathematics_and_Computer_Science
26. *Scientific meeting on Dynamical Systems*, ICMC-Universidade de São Paulo, São Carlos, Brazil, March 03, 2020, participation with the communication entitled "Qualitative results for nonlinear differential problems" <https://web.icmc.usp.br/SCAPINST/eventos/Program-W4-2020.pdf>
25. *The 27th Conference on Applied and Industrial Mathematics – CAIM*, Targoviste, Romania, September 19-22, 2019, participation with the communication entitled "Variable exponent problems on non-smooth domains" <https://www.caim.romai.ro/>
24. *International Conference on Elliptic and Parabolic Problems*, Gaeta, Italy, May 20-24, 2019, participation with the communication entitled "On a class of Robin problems with variable exponents" https://www.math.uzh.ch/fileadmin/math/events/2019/545/105301_Prog.pdf
23. *International Conference on Applied Mathematics and Numerical Methods (ICAMNM, second edition)*, Craiova, Romania, October 19-20, 2018, organizer and communication entitled "Critical point theory applied to nonlinear problems". <http://cis01.central.ucv.ro/ICAMNM2018/>
22. *The 26th Conference on Applied and Industrial Mathematics - CAIM*, Kisinev, Republic of Moldova, September 20-23, 2018, participation with the communication entitled "Weak solutions for a class of higher-order PDEs. <https://www.caim.romai.ro/>
21. *Recent Advances in Nonlinear Analysis (on the occasion of Professor's Vicențiu Rădulescu 60th birthday)*, Levico Terme, Italy, May 28-30, 2018, participation with the communication entitled "On the Leray-Lions type operators and some elliptic problems" (main speaker). <http://stiinte.ucv.ro/conf/index.html>
20. *Workshop on Pure and Applied Analysis*, Craiova, Romania, October 21, 2017, participation with the communication entitled "On some differential operators involved in variable exponent systems".
19. *International Conference on Applied Mathematics and Numerical Methods (ICAMNM) – In Memoriam "Romulus Militaru"*, Craiova, Romania, April 14-16, 2016 (organizer).
18. *Conference on Partial Differential Equations COPDE 2015*, Munich, Germany, March 25-29, 2015, participation with the communication entitled "New Generalized Operators for Elliptic Systems".

Conferences

- 7. *Nonlinear Dynamics Workshop*, Sinaia, Romania, September 26-27, 2014, participation with the communication entitled "Elliptic problems with variable exponents and no-flux boundary conditions".
- 16. *International Workshop on Nonlinear Analysis and Applications to Economics*, Craiova, Romania, September 25, 2014.
- 15. *The 12th French-Romanian Colloquy of Applied Mathematics*, Lyon, France, August 24-30, 2014, participation with the communication entitled "On some applications to antiplane contact models of the variable exponent problems".
- 14. *The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications*, Madrid, Spain, July 07-11 2014, participation with the communication entitled "Variable exponent problems involving generalized operators", in the special session "Variational methods for discrete and continuous boundary value problems (with applications)".
- 13. *The 8th European Conference on Elliptic and Parabolic Problems*, Gaeta, Italy, May 26-30 2014, participation with the communication entitled "On some elliptic problems with variable exponents".
- 12. *Workshop on Dispersive PDE's: Models and Dynamics*, Pisa, Italy, September 18-20 2013.
- 11. *8th Workshop on Control of Distributed Parameter Systems*, Craiova, Romania, July 1-5 2013 (local organizer).
- 10. *Eleventh French-Romanian Colloquy of Applied Mathematics*, Bucharest, Romania, August 24-30, 2012, participation with the communication entitled "Connections between Neumann problems with variable exponents".
- 9. *The Seventh Congress of Romanian Mathematicians*, Braşov, Romania, June 29 – July 5, 2011, participation with the communication entitled "On a class of nonlinear stationary problems with Neumann boundary condition".
- 8. *A Day in Nonlinear Analysis ("Una Giornata Nonlineare")*, University of Turin, Italy, February 11, 2011.
- 7. *Exploratory Workshop on Current Research Themes in Applied Mathematics*, Bucharest, Romania, September 2010.
- 6. *Workshop on Asymptotic Analysis and Stochastic Methods for Heterogeneous Media*, Alba-Iulia, Romania, June 2010, participation with the communication entitled "Multiplicity of weak solutions for a degenerate anisotropic elliptic problem with variable exponent".
- 5. *International Conference on Mathematics and IT: Research and Education (MITRE 2008)*, Kishinev, Moldavian Republic, October 2008, participation with the communication entitled "Positive entire large solutions for semilinear elliptic equations".
- 4. *National Session of Student Scientific Communications "Alexandru Myller"*, Iasi, Romania, July 2008, participation with the communication entitled "Existence and uniqueness of solutions for a class of quasilinear elliptic problems".
- 3. *National Session of Student Scientific Communications*, Iasi, Romania, July 2007, participation with the communication entitled "Existence of weak nontrivial solutions for a class of nonhomogeneous boundary value problems".
- 2. *CERCMS International Conference of Young Scientist affiliated to the International Conference "Computer Algebra in Scientific Computing-2006"*, Kishinev, Moldavian Republic, October 2006, participation with the communication entitled "Fraternalization in ... Mathematics".
- 1. *National Session of Student Scientific Communications*, Iasi, Romania, July 2006, participation with the communication entitled "Existence of solutions for an elliptic problem involving the $p(x)$ – Laplacean".
- Local organizer for 8 international conferences and workshops – see 11, 19, 23, 27, 28, 33, 34, 44 from the above list.
- Member of the Scientific Committee for 4 international conferences – see 28, 33, 44 from the above list and the forthcoming conference:
 - Emerging Trends in Applied Mathematics and Mechanics (ETAMM 2026), Lodz University of Technology, Poland, September 2-4, 2026 <https://etamm26.info.p.lodz.pl/>

- graduation of the postgraduate program of continuous training “Entrepreneurial competence - dimension of the professional development of university teachers” (within the project POCU/379/6/21/125093), Dec. 2020 – Feb. 2021.
- 11 Summer Schools in Mathematics and 4 advanced courses attended:
 - *Summer School on Qualitative Theory of Piecewise Ordinary Differential Equations*, CRM(Centre de Recerca Matemàtica), July 12–16, 2021.
 - *"5th Women in Mathematics Summer School on Mathematical Theories towards Environmental Models"*, International Centre for Theoretical Physics, Trieste, Italy, May 27–June 1, 2013.
 - *"Topics in Nonlinear Parabolic Equations"*, Centro di Ricerca Matematica Ennio De Giorgi, Pisa, Italy, June 24–29, 2012.
 - *"New trends in nonlinear PDEs"*, Centro di Ricerca Matematica Ennio De Giorgi, Pisa, Italy, June 17–22, 2012.
 - *"Spring School in Nonlinear Partial Differential Equations"*, Université Libre de Bruxelles, Belgium, May 30 – June 6 2012, with participation at the associated miniworkshop with the communication entitled "Existence and multiplicity results for Neumann problems with variable exponents".
 - *"Calculus of Variations and Applications"*, CIRM – Luminy, Marseille, France, July 11–16, 2011.
 - *"Three days in PDEs"*, University of Rome Tor Vergata, Italy, April 6–8, 2011.
 - *"Harmonic Analysis and Related Topics (HART)"*, University of Milano Bicocca, Italy, February 21–25, 2011.
 - The course *"Elliptic Equations"* held by Prof. S. Terracini and by Prof. G. Verzini at University of Milano Bicocca, Italy, February 15–April 12 2011.
 - The course *"Mathematical Modelling in Waterways"* held by Prof. R. Camassa at University of Milano Bicocca, Italy, February 15–April 13 2011.
 - The courses *"The restricted three body problem"* and *"Introduction to KAM theory"* held by Prof. R. Ortega, respectively by Prof. J. Féjóz, at University of Milano Bicocca, Italy, February 7–9, 2011.
 - Second Summer School on Analysis *"Spectral Theory and PDEs"*, Leibniz Universität Hannover, Germany, September 2010, with participation at the poster session with the poster "In the love story between two Sobolev spaces, an elliptic problem appears".
 - Summer Course in Mathematics organized by Scuola Matematica Interuniversitaria at the Palazzo of Cortona on *"Partial Differential Equations"*, Italy, August 2010.
 - The courses *"Regularity of Solutions of Second Order Elliptic Equations and Applications to Dirichlet Problem"* (Prof. L. Veron) and *"Fine Properties of Functions"* (prof. P. Mironescu) held at the summer school organized by IMAR Bucharest, Romania, 2005.

Editorial Activities

- Editor of *Annals of the University of Craiova - Mathematics and Computer Science Series* (since 2019); <http://inf.ucv.ro/ami/index.php/ami/index>
- Topic Editor of *Mathematics* (2021-2025); <https://www.mdpi.com/journal/mathematics>
- Editor of *Monographs in Applied Mathematics*, Ed. Universitaria Craiova (since 2016); https://www.ucv.ro/departamente_academice/dma/monographs_applied_mathematics/editorial_te
- Editor of two volumes of *Proceedings Associated to the International Conference on Applied Mathematics and Numerical Methods* (2020, 2022), published on ITM Web of Conferences, Volume 34 (2020) and Volume 49 (2022), see <https://www.itm-conferences.org/>;
- In the Editorial Committee of the Series of Didactic Works of Department of Applied Mathematics of University of Craiova (since 2024); https://www.ucv.ro/departamente_academice/dma/seria_lucrari_didactice/colectivul_editorial.php

Reviewer

- Mathematical Reviews/MathSciNet Reviewer number: 088090;
- Reviewer for Czech Science Foundation in the evaluation process of research projects (2018).

Referee

- acted as a referee for a book in Oxford University Press;
- acted as a referee for 56 international journals in mathematics: Abstract and Applied Analysis, Advances in Pure and Applied Mathematics, Advances in Nonlinear Analysis, Afrika Matematika, AIMS Mathematics, Applied Mathematics – A Journal of Chinese Universities, Applied Mathematics Letters, Applicable Analysis, Annals of the University of Craiova - Mathematics and Computer Science Series, Boletim da Sociedade Paranaense de Matemática, Boundary Value Problems, Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie, Bulletin of Mathematical Sciences, Bulletin of the Iranian Mathematical Society, Collectanea Mathematica, Complex Variables and Elliptic Equations, Comptes Rendus Mathématique, Discrete and Continuous Dynamical Systems-B (DCDS-B), Discrete and Continuous Dynamical Systems-S (DCDS-S), Electronic Journal of Differential Equations, Electronic Journal of Qualitative Theory of Differential Equations, FILOMAT, Fractal and Fractional (MDPI), Glasnik Matematicki, Journal of Elliptic and Parabolic Equations, Journal of Function Spaces, Journal of Function Spaces and Applications, Journal of Inequalities and Applications, Journal of Mathematical Analysis and Applications, Journal of Nonlinear Functional Analysis, Journal of Nonlinear Mathematical Physics, Kragujevac Journal of Mathematics, Manuscripta Mathematica, Matematicki Vesnik, Mathematica Bohemica, Mathematical Methods in the Applied Sciences, Mathematical Modelling and Analysis, Mathematical Reports, Mathematics (MDPI), Mathematische Nachrichten, Nonlinear Analysis: Real World Applications, Nonlinear Analysis: Theory, Methods and Applications, Rendiconti del Circolo Matematico di Palermo Series 2, Revista Matemática Complutense, Revue Roumaine de Mathématique Pures et Appliquées, Ricerche di Matematica, Rocky Mountain Mathematics Journal, ROMAI Journal, Science China Mathematics, SeMA Journal, Symmetry (MDPI), Thai Journal of Mathematics, Topological Methods in Nonlinear Analysis, Turkic World Mathematical Society Journal of Applied and Engineering, Ukrainian Mathematical Journal, Zeitschrift für Analysis und ihre Anwendungen.

Memberships

- Romanian Mathematical Society <http://ssmr.ucv.ro/index.html> (member since 2012, in the directory board of Dolj subsidiary since 2020);
- Centre for Nonlinear Analysis and its Applications (CNAA) of Univ. of Craiova <http://math.ucv.ro/cnaa/> (member since 2012);
- Romanian Society of Applied and Industrial Mathematics (ROMAI) <https://www.romai.ro/> (member since 2018, vice-president since 2025, auditor from 2021 to 2025);
- European Women in Mathematics <https://www.europeanwomeninmaths.org/> (member since 2014, Romania's country coordinator since 2020, in the Standing Committee from 2022 to 2024);
- Romania's ambassador for the Committee of Women in Mathematics of the International Mathematical Union <https://www.mathunion.org/cwm> (since 2020);
- Center for Research, Education and Promotion of Mathematics in Science, Technology and Society of DMA, Univ. of Craiova https://www.ucv.ro/departamente_academice/dma/centru_de_cercetare/home.php (2016–2020, founding member);
- Centre of Interdisciplinary Research in Sciences (2CIS) of Faculty of Sciences, University of Craiova (since 2021, secretary);
- China-Romania Research Center in Applied Mathematics – CRAM (member since 2021) <http://cram.ucv.ro/index.php>
- union of employees of the Faculty of Mathematics and Informatics of the University of Craiova (SSFMI) (member since 2017, vice-president since 2020).

Evaluation of PhD theses

- served on the defense committee for five PhD theses:
 - Eleonora Amoroso (University of Palermo, Italy, 2024);
 - Davide Giacobello (University of Palermo, Italy, 2024);
 - Iulia-Dorotheea Stîrcu (University of Craiova, Romania, 2019);
 - Vasile-Florin Uță (University of Craiova, Romania, 2019);
 - Ionela-Loredana Stăncuț (University of Craiova, Romania, 2015);
- served as an external evaluator for two PhD theses:
 - Valeria Morabito (University of Messina, Italy, 2025);
 - Mufutau Rufai (University of Bari Aldo Moro, Italy, 2022).

Other committees and activities

- member of five committees responsible for hiring new professors: at University of Craiova, Romania; at "Ovidius" University of Constanța, Romania; at "Dunarea de Jos" University of Galati, Romania;
- involvement in the student selection process for the Faculty of Automation, Computers and Electronics, University of Craiova (grading exams and proposing subjects for the university entrance examination);
- involvement in different mathematical contests and local math olympics (university and pre-university education);
- participated in the University of Craiova programs aimed at helping high school students prepare for the Baccalaureate exam;
- member of several committees for granting the first degree in education to teachers.