

# CURRICULUM VITAE

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## Academic experience

- **October 1, 2021 - present: Full Professor** at the University of Craiova, Craiova, Romania.
- **October 1, 2015 – September 30, 2017: Associate Professor** at the Alexandru Ioan Cuza University of Iasi, Iasi, Romania (part time).
- **October 1, 2011 – September 30, 2021: Associate Professor** at the University of Craiova, Craiova, Romania .
- **October 1, 2007 – September 30, 2011: Assistant Professor** at the University of Craiova, Craiova, Romania.
- **October 1, 2005 – September 30, 2007: Teaching Assistant** at the University of Craiova, Craiova, Romania .

## Education

- **2015: Habilitation in Mathematics**, Title of the habilitation thesis: *Control and optimization problems*, Ministry order no. 5879/4.12.2015.
- **2005-2008: Ph.D. in Mathematics**, Faculty of Mathematics and Computer Science, University of Craiova, Romania.  
Title of Thesis: *Aspects of convexity in spaces with a curved geometry*.  
Thesis advisor: **Prof. Constantin P. Niculescu**.
- **2005-2007: M.Sc. in Applied Mathematics**, University of Craiova, Romania.
- **2001-2005: B.Sc. in Mathematics**, University of Craiova, Romania.

## Awards

1. “Spiru Haret” Prize of the Romanian Academy in mathematical sciences, for the paper “*Particle supported control of a fluid-particle system*”, 2017 ([http://www.acad.ro/premiileAR/pag\\_premii\\_lista.htm](http://www.acad.ro/premiileAR/pag_premii_lista.htm))

## Research grants

1. Member of the MCID research project: Nonlinear Differential Systems in Applied Sciences (NDSAS), project number: PNRR-III-C9-2022-I8, CF 22, 760112/ 23.05.2023
2. Director of the CNCS-UEFISCDI research mobility project PN-III-P1-1.1-MC-2018-1443.
3. Director of the CNCS-UEFISCDI research mobility project: PN-III-P1-1.1-MC-2017-2433, no. 666/18.12.2017.
4. Director of the CNCS-UEFISCDI research project: Controllability and optimization problems, project number: PN-II-RU-TE-2014-4-1109.
5. Director of the CNCS research project: Numerical methods for controls of partial differential equations, PNII Grant, Capacitati Brancusi, Modul III, Bilateral project Romania-France, project number PN-II-CT-RO-FR 2012-1-1005, Nr. 700/19.04.2013, CF-128/19.04.2013.
6. Member of the CNCS research project: Mathematical methods applied in the study of mechanical systems, project number: PN-II-RU-TE-2014-4-0320.
7. Postdoctoral fellowship: POSDRU/159/1.5/S/133255, University of Craiova, research project: Optimization problems in convex analysis and control theory, April 2014 - October 2015.
8. Member of the CNCS-UEFISCDI research project: *Controllability, asymptotic behavior and numerical analysis for evolutionary processes*, project number: PN-II-ID-PCE-2011-3-0257.
9. Member of the CNCS-UEFISCDI research project: *Strongly Nonlinear Problems in Contact Mechanics*, project number: PN-II-RU-TE-2011-3-0223.
10. Member of the research project : Sisteme cu parametri distribuiti: analiză, sinteză via funcționale Liapunov pentru comandă, aproximare numerică și implementare tip neurocomputing, No.: 10C/27.01.2014, University of Craiova, (2014).
11. Member of the research project: *Control of some fluid-structure interaction*, supported by Laboratoire European Associe CNRS Franco-Roumain, LÉA MATH-MODE Mathematiques and Modelisation, 2011.
12. Member of the CNCSIS Grant: *Controllability problems for partial differential equations*, Grant PNII, Capacitati Brancusi, Modul III, bilateral project Romania-France, Nr. 206/13-04-2009.
13. Member of the CNCSIS Grant: *Problems of convex analysis, numerique analysis and control in the study of physical complex systems*, Grant PNII, IDEI, Nr. 420/2008.

14. Member of the CNCSIS Grant: *Analysis and controls of the neliniar differential systems*, 589/2007.
15. Member of the CNCSIS Grant: *Integration of master programs into the European higher educational framework by promoting interdisciplinary research via nonlinear analysis and evolution problems*, Contract 26761/2005 theme 14, Grant 80.

## Publications

1. **G. M. Lachescu, M. Malin, I. Roventa**, On the barycenter for discrete Steffensen Popoviciu measures on global NPC spaces, *Aequationes Mathematicae* (2025), in press..
2. **G. M. Lachescu, M. Malin, I. Roventa**, New Versions of Uniformly Convex Functions via Quadratic Complete Homogeneous Symmetric Polynomials, *Results in Mathematics* 80:179 (6) (2025), 1-15.
3. **I. Roventa, L. E. Temereanca, M. A. Tudor**, An application of moment method to uniform boundary controllability property of a semidiscrete 1-d wave equation with a lower rate vanishing viscosity, *Journal of Differential Equations* 389 (2024), 1-37.
4. **N. Cindea, S. Micu, I. Roventa, M. A. Tudor**, An approximation method for exact controls of vibrating systems with numerical viscosity, *ESAIM-COCV* 30 (2024), article number 33, 1-27.
5. **S. Micu, I. Roventa, M. Tucsnak**, Time optimal controls and bang-bang property for systems describing plate vibrations, *Systems & Control Letters* 182 (2023), 105670. DOI: 10.1016/j.sysconle.2023.105670.
6. **I. Roventa, L. A. Perez-Maqueda, A. Rotaru**, Advancements in the integration and understanding of the Sestak-Berggren generalized conversion function for heterogeneous kinetics, *Journal of Thermal Analysis and Calorimetry* (2023), DOI: 10.1007/s10973-023-12727-8.
7. **I. Roventa, L. E. Temereanca, M. A. Tudor**, Weighted Ingham's type inequalities via the positivity of quadratic polynomials, *Aequationes Mathematicae* 98 (3) (2024), 865-883.
8. **S. Micu, I. Roventa**, Filtration techniques for the uniform controllability of semidiscrete hyperbolic equations, *Handbook of Numerical Analysis* 24 (2023), 261-296.
9. **M. Malin, G. M. Lachescu, I. Roventa**, New Versions of Uniformly Convex Functions via Quadratic Complete Homogeneous Symmetric Polynomials, *Mediterranean Journal of Mathematics* 20 (5) (2023), 1-20.

10. **G. M. Lachescu, I. Roventa**, The Hardy-Littlewood-Polya inequality of majorization in the context of w-m-star-convex functions, *Aequationes Mathematicae* 97 (3) (2023), 523-535.
11. **I. Roventa, L. E. Temereanca, M. A. Tudor**, A note on a algorithm studying the uniform controllability of a class of semidiscrete hyperbolic problems, *Annals of the University of Craiova – Mathematics and Computer Science Series* 50 (1) (2023), 224-238.
12. **G. Leugering, S. Micu, I. Roventa, Y. Wang**, Controllability properties of a system consisting of two elastic strings with tip-masses connected by an elastic spring, submitted, *Journal of Evolution Equations* 22 (3) (2022), 1-36.
13. **S. Micu, I. Roventa, L. E. Temereanca**, Approximation of the controls for the wave equation with a potential, *Numerische Mathematik* 144 (4) (2020), 835-887.
14. **P. Lissy, I. Roventa**, Optimal approximation of internal controls for a wave-type problem with fractional Laplacian using finite-difference method, *Mathematical Models and Methods in Applied sciences (M3AS)*, 30 (3) (2020), 439-475.
15. **C. P. Niculescu, I. Roventa**, Convex functions and Fourier coefficients, *Positivity* 24 (1) (2020), 129-139.
16. **I. Roventa, L. E. Temereanca, M. A. Tudor**, A note on weighted Ingham's inequality for families of exponentials with no gap, *24th International Conference on System Theory, Control and Computing (ICSTCC)* (2020), 43-48, doi: 10.1109/ICSTCC50638.2020.9259770.
17. **M. Malin, I. Roventa**, Ky Fan's inequality in the context of relative convexity, *Journal of Nonlinear and Convex Analysis* 21 (3) (2020), 629-637.
18. **P. Lissy, I. Roventa**, Optimal filtration for the approximation of boundary controls for the one-dimensional wave equation using a finite-difference method, *Mathematics of Computation* 88 (315) (2019), 273-291.
19. **I. Roventa, L. E. Temereanca**, A note on the positivity of the even degree complete homogeneous symmetric polynomials, *Mediterranean Journal of Mathematics*, (2019), 16: 1.
20. **M. Malin, I. Roventa, M. Tudor**, The Convergence of a Sequence of Iterated Polygons: A Discrete Combinatorial Analysis. In: Elaydi S., Pötzsche C., Sasu A. (eds) Difference Equations, Discrete Dynamical Systems and Applications. ICDEA 2017. *Springer Proceedings in Mathematics & Statistics*, vol 287. Springer, Cham (2019), 17 pages.
21. **N. Cindea, S. Micu, I. Roventa**, Boundary controllability for finite-difference semi-discretizations of a clamped beam equation, *SIAM J. Control. Optim. (SICON)* 55 (2) (2017), 785-817.

22. **D. Y. Gao, P. Neff, I. Roventa, C. Thiel**, On the convexity of nonlinear elastic energies in the right Cauchy-Green tensor, *Journal of Elasticity* 127 (2) (2017). 303-308.

23. **C. P. Niculescu, I. Roventa**, Hardy-Littlewood-Polya theorem of majorization in the framework of generalized convexity, *Carpathian Journal of Mathematics* 33 (1) (2017), 87-95.

24. **N. Cindea, S. Micu, I. Roventa**, Uniform Observability for a Finite Differences Discretization of a Clamped Beam Equation, IFAC-PapersOnLine, Volume 49, Issue 8, 2016, Pages 315–320, Elsevier, *2nd IFAC Workshop on Control of Systems Governed by Partial Differential Equations*, <http://dx.doi.org/10.1016/j.ifacol.2016.07.460>. (ISI Proceedings).

25. **F.I. Bugariu, S. Micu, I. Roventa**, Approximation of the controls for the beam equation with vanishing viscosity, *Mathematics of Computation* 85 (2016), no. 301, 2257-2303.

26. **S. Micu, I. Roventa, L. E. Temereanca**, Approximation of the controls for the linear beam equation, *Mathematics of Control, Signals and Systems* 23 (2016), no. 2, 53 pages.

27. **I. Roventa**, Hardy-Littlewood-Polya's inequality and a new concept of weak majorization, *Mediterranean Journal of Mathematics* 13 (2016), no. 2, 573-583.

28. **N. Cindea, S. Micu, I. Roventa, M. Tucsnak**, Particle supported control of a fluid-particle system, *Journal de Mathématiques Pures et Appliquées* 104 (2) (2015), 311-353.

29. **C. P. Niculescu, I. Roventa**, Relative Schur-convexity on global NPC spaces, *Mathematical Inequalities and Applications* 18 (3) (2015), 1111-1119.

30. **M. Malin, I. Roventa**, Some remarks on convex networks flows for K-spiders, *Mathematical Problems in Engineering*, Volume 2015, article ID 710516, 6 pages.

31. **C. P. Niculescu, I. Roventa**, Relative Convexity and Its Applications, *Aequationes Mathematicae* 89 (5) (2015), 1389-1400.

32. **D. Danciu, A. C. Matei, S. Micu, I. Roventa**, Nonlinear Feedback Control and Artificial Intelligence Computational Methods applied to a Dissipative Dynamic Contact Problem, In ICINCO 2014 - *11th International Conference on Informatics in Control, Automation and Robotics*, vol 1, (2014) ISBN: 978-989-758-039-0, pp. 528-539.

33. **I. F. Bugariu, N. Cindea, S. Micu, I. Roventa**, Controllability of the space semi-discrete approximation for the beam equation, *19th World Congress The International Federation of Automatic Control* Cape Town, South Africa. August 24-29, 2014, 11369-11374.

34. **F. Bugariu, I. Roventa**, Small time uniform controllability of the linear one dimensional Schrodinger equation with vanishing viscosity, *Journal of Optimization Theory and Applications* 160 (3) (2014), 949-964.

35. **N. Cindea, S. Micu, I. Roventa, M. Tucsnak**, Numerical aspects and controllability of a one dimensional fluid-structure model, *Ist IFAC Workshop on Control of Systems Governed by Partial Differential Equations*, 2013, published by Elsevier and The International Federation of Automatic Control on IFAC-PapersOnLine, 19-24, ISSN 1474-6670, ISBN: 978-3-902823-54-0. DOI: 10.3182/20130925-3-FR-4043.00035.

36. **C. P. Niculescu, I. Roventa**, An approach of majorization in spaces with a curved geometry, *Journal of Mathematical Analysis and Applications* 411 (1) (2014) 119-129.

37. **C. P. Niculescu and I. Roventa**, An extension of Chebyshev's algebraic inequality, *Math. Reports* 15 (65) (2013), No. 1, 91-95.

38. **S. Micu, I. Roventa, M. Tucsnak**, Time optimal boundary controls for the heat equation, *Journal of Functional Analysis*, 263 (2012), 25-49.

39. **I. Roventa**, A note on Schur-concave functions, *Journal of Inequalities and Applications*, Volume 2012, No. 1, 2012:159.

40. **S. Micu, I. Roventa**, Uniform controllability of the linear one dimensional Schrodinger equation with vanishing viscosity, *ESAIM: Control, Optimisation and Calculus of Variations*, 18 (2012), 277-293.

41. **C. P. Niculescu, I. Roventa**, Generalized convexity and the existence of finite time blow-up solutions for an evolutionary problem, *Nonlinear Analysis: Theory, Methods & Applications* 75 (2012), 270-277.

42. **N. Cindea, S. Micu, I. Roventa, M. Tucsnak**, Controllability of a nonlinear hybrid system, *Annals of the University of Craiova - Mathematics and Computer Science Series*, Vol 38, No 1 (2011), 35-48.

43. **I. Roventa**, Large solutions to a singular weighted quasi-linear equations involving the p-Laplacian operator, *Proceedings of ISCOPAM 2010*, Editors: /Ovidiu Carja and Ionel-Dumitrel Ghiba, Editura Universitatii "Alexandru Ioan Cuza" Iasi, 2011, pp. 209-220, ISBN 978-973-703-602-5.

44. **C. P. Niculescu, I. Roventa**, Large Solutions for Semilinear Parabolic Equations Involving Some Special Classes of Nonlinearities, *Discrete Dynamics in Nature and Society*, Volume 2010 (2010), Article ID 491023, 11 pages.

45. **I. Roventa**, Schur-convexity of a class of symmetric functions, *Annals of the University of Craiova - Mathematics and Computer Science Series* 37 (2010), No. 1, 12-18.

46. **C. P. Niculescu, I. Roventa**, The Fan's inequality in metric spaces with non-positive curvature, *Applied Mathematics Letters* 22 (2009), 1529-1533.

47. **C. P. Niculescu, I. Roventa**, The existence of a global attractor for a class of rational maps, *Annals of the Academy of the Romanian Scientists, Series on Mathematics and its Applications* 1 (2009), No. 2, 215-227.

48. **C. P. Niculescu, I. Roventa**, Schauder fixed point theorem in metric spaces with non-positive curvature, *Fixed Point Theory and Applications*, volume 2009 , article ID 906727, 8 pages.

49. **I. Roventa**, Boundary asymptotic and uniqueness of solution for a problem with  $p(x)$ -Laplacian, *Journal of Inequalities and Applications*, Volume 2008, 14 pages.

50. **M. Mihăilescu, I. Roventa**, Existence and multiplicity of radial solutions for an elliptic boundary value problem on an annulus, *Bull. Math. Soc. Sci. Math. Roumanie* 50 (2007), No. 4, 331-341.

51. **C. P. Niculescu, I. Roventa**, Fan's inequality in the context of  $M_p$ -convexity, in vol. *Applied Analysis and Differential Equations*, Proc. ICAADE 2006, pp. 267-274, *World Scientific*, Singapore, 2007 (Editors, Ovidiu Carja and Ioan I. Vrabie) ISBN 978-981-270-594-5, ISSN 981-270-594-5.

52. **I. Roventa**, A generalization of Ky Fan's theorem, Proceedings of the International Conference of Young Scientists, affiliated to the International Conference *Computer Algebra in Scientific Computing- 2006*, CASC 2006, Chisinau, Proc. CASC 2006, pp 181-186, ISBN 978- 9975-70-677-3.

## Research stages

1. Invited professor at University of Clermont Auvergne, February 2025.
2. Invited professor at City University of Hong Kong, February – March 2023.
3. Professeur invité CEREMADE Université Paris Dauphine, August - September 2021.
4. Universite de Bordeaux, Institut de Mathematiques de Bordeaux, August 26-September 1, 2018.
5. Universite Clermont Auvergne, Laboratoire de mathematiques Blaise Pascal, February 1- 18, 2018.
6. Universite Clermont Auvergne, Laboratoire de mathematiques Blaise Pascal, February 7- 20, 2017.

7. Universite Paris Dauphine, CEREMADE, UMR CNRS 7534, June 25 - July 1, 2016.
8. Programme des Professeur Invites Courts Sejours, Universite Blaise Pascal, Laboratoire de Mathematiques de Clermont-Ferrand, February 4-18, 2016.
9. Universitat Duisburg-Essen, Fakultat fur Mathematik, Nichtlineare Analysis und Modellierung, January 31- February 28, 2015.
10. Universite Blaise Pascal, Laboratoire de Mathematiques de Clermont-Ferrand, November 9-18, 2014.
11. Universite Blaise Pascal, Laboratoire de Mathematiques de Clermont-Ferrand, May 25-30, 2012.
12. Universite Blaise Pascal, Laboratoire de Mathematiques de Clermont-Ferrand, November 4-11, 2013.
13. Universite Henri Poincare Nancy 1, Institute Elie Cartan, Nancy, France, November 8-19, 2011.
14. Universite Henri Poincare Nancy 1, Institute Elie Cartan, Nancy, France, September 20 - October 2, 2011.
15. Universite Henri Poincare Nancy 1, Institute Elie Cartan, Nancy, France, June 6-15, 2010.
16. Institute Henri Poincare, Paris, France, 2-26 November, 2010, Control of Partial and Differential Equations and Applications Trimester, Centre Emile Borel.
17. Universite Henri Poincare Nancy 1, Institute Elie Cartan, Nancy, France, September 1-8, 2009.
18. Universite Henri Poincare Nancy 1, Institute Elie Cartan, Nancy, France, 8-20 June, 2009.

## **Conferences, Workshops and Summer Schools**

1. Seminarul Stiintific Analiza Neliniara, EDP si Modelare Matematica, Universitatea Al. I. Cuza din Iasi, The approximation of boundary controls for wave equation via moments problem and Ingham's inequality, 24 noiembrie 2025.
2. 10th Regional French-Romanian Summer School on Applied Mathematics, Sinaia, Romania, Fourier Techniques and Observability Properties for Partial Differential Equations – first course, July 14 2025.

3. 10th Regional French-Romanian Summer School on Applied Mathematics, Sinaia, Romania, Fourier Techniques and Observability Properties for Partial Differential Equations – second course, July 15 2025.
4. 10th Regional French-Romanian Summer School on Applied Mathematics, Sinaia, Romania, Fourier Techniques and Observability Properties for Partial Differential Equations – third course, July 16 2025.
5. 10th Regional French-Romanian Summer School on Applied Mathematics, Sinaia, Romania, Fourier Techniques and Observability Properties for Partial Differential Equations – fourth course, July 17 2025.
6. Complexity in Mathematics, Physics, Mechanics, Automation, Across workshop series on science and society aimed at promoting the role of science in society, Transdisciplinary approaches to complex systems, Craiova, June 19-21, 2025, On the approximation of boundary control for the wave equation, invited talk.
7. Laboratoire de Mathematique Blaise Pascal, Seminaire EDPAN (Équipe Équations aux dérivées partielles et analyse numérique), 13 February 2025, On the approximation of boundary controls for 2D wave equation in a rectangle, invited talk.
8. Third edition of the NA-NM-AT conference series organized by Tiberiu Popoviciu Institute of Numerical Analysis (Romanian Academy), November 4-7, as part of the 2024 edition of the Cluj Academic Days, Uniform boundary controllability property of the semi-discrete 1D wave equation, invited talk.
9. XVIeme COLLOQUE FRANCO-ROUMAN DE MATHÉMATIQUES APPLIQUÉES, organizarea minisimpozionului „Contrôle des EDP”, UPB Bucharest, 26-30 august 2024.
10. International Conference on Elliptic and Parabolic Problems: GAETA 2024, 20-24 mai 2024, Approximation of the boundary controls for the 2 – D wave equation in a rectangle, participare la conferinta, invited talk.
11. The International Conference on Mathematics and Computer Science (MACOS), FACULTY OF MATHEMATICS AND COMPUTER SCIENCE, TRANSILVANIA UNIVERSITY OF BRASOV, Brasov, 13-15 June 2024, Boundary controls approximation for the 2D wave equation in rectangular domains, , invited talk.
12. The tenth Congress of Romanian Mathematicians, Pitesti, June 30 - July 5, 2023, The approximation of the controls for the wave equation with a lower rate numerical vanishing viscosity, invited talk.
13. MACOS 2022, University Transilvania of Brasov, September 16-18, 2022, The approximation of controls using moment problems, contributed talk.
14. 24th International Conference on System Theory, Control and Computing (ICSTCC) October 8-10, 2020, A note on weighted Ingham's inequality for families of exponentials with no gap, contributed talk.
15. Dynamics, Equations and Applications (DEA 2019), AGH University of Science and Technology, September 16 - 20, 2019, Krakow, Poland, Optimal approximation of internal controls for a wave-type problem with fractional

laplacian using finite-difference method, invited talk.

- 16. 8th Workshop on Partial Differential Equations, Optimal Design and Numerics, August 16 - 30, 2019, Benasque, Spain, Optimal approximation of internal controls for a wave-type problem with fractional Laplacian, Thematic session on Numerics and control, contributed talk.
- 17. XIV-ème colloque franco-roumain de mathématiques appliquées, August 27-31, 2018, Université de Bordeaux, France, organiser (with Pierre Lissy) of the session: Contrôle des EDP.
- 18. First Romanian Itinerant Seminar on Mathematical Analysis and its Applications (RISMAA), Babes-Bolyai University, Romania, 19-21 April, 2018, Optimal filtration for the approximation of controls, invited talk.
- 19. 7th Workshop on Partial Differential Equations, Optimal Design and Numerics, August 20 - September 1, 2017, Benasque, Spain, “Approximation of boundary controls for the wave equation”, contributed talk.
- 20. 23rd International Conference on Difference Equations and Applications (ICDEA 2017), West University of Timisoara, Romania, 24-28 July, 2017, The approximation of boundary controls for the one-dimensional wave equation, invited talk.
- 21. Plenary lecture at Laboratoire de Mathematiques de Clermont-Ferrand, Universite Blaise Pascal, Optimal filtration for approximation of boundary controls for the one-dimensional wave equation using finite differences, February 14, 2017.
- 22. XIII – eme Colloque Franco – Roumain de Mathematiques Appliquees, Iasi, August, 25-29, 2016, Session: Analysis and control for PDE's, Approximation of the controls for hinged and clamped beam equations, invited talk.
- 23. Conference of Applied and Industrial Mathematics, CAIM 2016, Section: PDE's with applications in Mechanics, Biology, Craiova, September 17-19, 2016, Approximation of the boundary controls for the wave equation, contributed talk.
- 24. Emerging trends in Applied Mathematics and Mechanics, ETAMM 2016, May 30 – June 3, Perpigan France, Approximation of the controls for hinged and clamped beam equations, contributed talk.
- 25. Diaspora in Cercetarea Stiintifica și Invatamantul Superior din Romania - Diaspora și prietenii sai 2016 Workshop: Sisteme Dinamice. Teoria și aplicatii. Timisoara, April 25-27, 2016, Approximation of the controls for the beam equation, invited plenary talk.
- 26. ICAMNM 2016, Craiova 15-17 April, Approximation of the controls for beam equation with different boundary conditions, contributed talk.

27. Conférence Contrôle des EDP et applications, CIRM, Marseille, 9-13 november 2015.

28. Journées EDP Rhône-Alpes-Auvergne, Université Blaise Pascal, Clermont-Ferrand, 19-20 november 2015.

29. 9<sup>th</sup> Workshop of Distributed Parameter Systems, June 29-July 3, Beijing, China, Approximation of the Controls for the Beam Equation with Vanishing Viscosity, invited plenary talk.

30. Lectures at Universitat Duisburg-Essen, Fakultat fur Mathematik, Nichtlineare Analysis und Modellierung, Oberseminar analysis, Majorization in spaces with global nonpositive curvature and Relative convexity and relative Schur convexity with applications, February 13 and 19, 2015.

31. 19th World Congress of the International Federation on Automatic Control, Cape Town, South Africa, August 24-29, 2014, Controllability of the semi discrete space approximation for the beam equation, contributed talk.

32. Mathematical Inequalities and Applications, Trogir, Croatia, June 22-26, 2014, An approach of Schur convex-concave functions, contributed talk.

33. The Twelfth Conference on Nonlinear Analysis and Applied Mathematics, Targoviste, Romania, June 13-14, 2014, A new approach on weak majorization and applications, contributed talk.

34. The Joint Meeting on Quantum Field Theory and Nonlinear Dynamics, The controllability of a system modeling the motion of a swimmer moving in a viscous fluid, Sinaia September 24-27, 2014, contributed talk in Nonlinear Dynamics session.

35. 1st IFAC Workshop on Control Systems Modeled by Partial Differential Equations, CPDE, September 25-27, Institute Henri Poincare, Paris, France, Numerical aspects and controllability of a one dimensional fluid-structure model, regular talk in „Controllability and observability” session.

36. 21th Conference on Applied and Industrial Mathematics, September 19-22, 2013, Bucharest, Romania, Generalized equilibrium problems related to Ky Fan inequalities, invited talk.

37. 5-th Workshop Partial differential equations, optimal design and numerics, Benasque, Spain, August 25-September 5, 2013, Controllability of a fluid-structure model, thematic session on "Fluid-Structure Interactions", contributed talk.

38. Thematic school of the GDRE ConEDP: Control of PDE's interactions and applications challenges, November 5th-9th, Centre International de Rencontres Mathematiques (CIRM), Luminy, France.

39. 33th International Summer School of Automatic Control, Modeling and Control of Distributed Parameter Systems, Gipsa-Lab Departament Automatique, Grenoble, France, September 10-14, 2012.

40. Xieme Colloque Franco-Roumain de Mathématiques Appliquées, Faculté de Mathématiques et Informatique, Bucarest, 24-30 Août 2012.

41. Spring School in Nonlinear Partial Differential Equations, Université Libre de Bruxelles, May 30–June 6, 2012.

42. Congres d'Analyse Numerique CANUM 2012, Super-Besse, May 21-25, 2012, Laboratoire de Mathematiques de Clermont-Ferrand, On the solvability of an abstract variational system, contributed talk.

43. Workshop on "Partial differential equations, optimal design and numerics" 2011, August 28- September 09, 2011, Centro de Ciencias de Benasque Pedro Pasqual, Organizers: G. Buttazzo (U. Pisa) and E. Zuazua (BCAM).

44. 10th International Symposium on Generalized Convexity/Monotonicity, Cluj, 22-27 August, 2011, An Applications of generalized convexity to the existence of finite time blow-up solutions for an evolutionary problem, contributed talk.

45. 7th Congress of Romanian Mathematicians, Brasov, June 29 - July 5, 2011, Generalized convexity and the existence of finite time blow-up solutions for semilinear parabolic equations, contributed talk.

46. International Student Conference on pure and Applied Mathematics, ISCOPAM 2010, Iasi, 12-16 July, 2010, Uniform controllability of the linear one dimensional Schrodinger equation with viscosity, contributed talk.

47. National Conference of the Academy of Romanian Scientists, 22-24 September, 2010, Uniform controllability of the linear one dimensional Schrodinger equation with vanishing viscosity, contributed talk.

48. National Mathematics Conference for University Students, Iasi, July-2009, Schauder fixed point theorem in global NPC spaces, contributed talk.

49. Mathematics and Informatics Technologies: Research and Education, MITRE-2008, Chisinau, October 1-4, 2008, Fixed point theorems in context of spaces with non-positive curvature, contributed talk.

50. National Mathematics Conference for University Students, Iasi, July 2008, Functii Schur-convexe. Inegalitati simetrice, contributed talk.

51. 10th International Conference on Discrete Mathematics Convexity and Graph Theory, Universitat Dortmund, Germany, July 14-18, 2007, Fan's inequality in metric spaces with nonpositive curvature, contributed talk.

52. National Mathematics Conference for University Students, Iasi, July, 2007, Existenta unui atractor global pentru o clasa de aplicatii rationale, contributed talk.

53. 6th Congress of Romanian Mathematicians, Bucharest, June 28- July 4, 2007, The existence of a global attractor for a class of rational maps, contributed talk.

54. International Conference on Applied Analysis and Differential Equations, (ICAADE-2006), Iasi, September 4-9, 2006, Fan's inequality in the context of Mp-convexity, contributed talk.

55. National Mathematics Conference for University Students, Iasi, July, 2006, O generalizare a Teoremei Ky Fan in cazul Mp Convexitatii, contributed talk.

56. CERCMS International Conference of Young Scientist affiliated to the International Conference Computer Algebra in Scientific Computing-2006, Proc. CASC 2006, A generalization of Ky Fan's Theorem, contributed talk.

57. National Mathematics Conference for University Students, Iasi, May, 2005, Echilibrul Nash si algoritmul Lemke-Howson, contributed talk.

## Editorial activities

- **Editor in Chief:** *Annals of the University of Craiova, Mathematics & Computer Science Series*, Web of Science - Journal Citation Report: **IF: 0.7**.
- **Reviewer:** *Numerische Mathematik, Journal de Mathématiques Pures et Appliquées, SICON, M3AS, M2AS, Systems & Control Letters, Applied Mathematics Letters, ESAIM COCV, Mathematics of Control, Signals and Systems, Automatica, Journal of Mathematical Analysis and Applications, Advances in Nonlinear Analysis, Boundary Value Problems, Journal of Optimization Theory and Applications, Aequationes Mathematicae, etc;*

Prof. univ. dr. Ionel Rovența

Data: 01.10.2025

Semnătura:

