

Curriculum vitae

Identity

First Name: Ionel

Last Name: Rovența

Date of birth: 24-12-1982

Affiliation: Head of the Department of Mathematics, University of Craiova,
A. I. Cuza Street, No. 13, Craiova 200585, Romania

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<https://scholar.google.com/citations?user=HFrhIhgAAAAJ&hl=fr>

Education

- **2001-2005** - Faculty of Mathematics and Computer Science, University of Craiova, Romania.
- **2005-2007** - Master degree, Dynamical systems and evolution problems, Faculty of Mathematics and Computer Science, University of Craiova, Romania
- **2005-2008** - Ph.D. degree, Faculty of Mathematics and Computer Science, University of Craiova, Romania.
Ph. D. Thesis: *Aspects of convexity in spaces with a curved geometry*.
Advisor: Professor Constantin P. Niculescu.

Ph.D. Committee: Lucian Beznea, IMAR, Bucharest,
Ovidiu Carja, University A. I. Cuza, Iasi
Sorin Micu, University of Craiova

- **2015** – Habilitation certificate, Title of the habilitation thesis: Control and optimization problems, Ministry order no. 5879/ 4.12.2015.

Committee: Lucian Beznea, IMAR, Bucharest,
Ovidiu Carja, University A. I. Cuza, Iasi
Dan Tiba, IMAR, Bucharest

Present position: Associate Professor, Department of Mathematics,
University of Craiova, Romania (full time)
Associate Professor, Department of Mathematics,
Alexandru Ioan Cuza University of Iasi, Romania (part time, 2015-2017)

CURRICULUM VITAE

VICENȚIU D. RĂDULESCU

HIGHLIGHTS

1. Education:

Ph.D.: Université Pierre et Marie Curie (Paris 6), 1995. Advisor: Haim Brezis (awarded with the highest distinction: *très honorable avec félicitations*)

Habilitation: Université Pierre et Marie Curie (Paris 6), 2003. Advisor: Haim Brezis

2. Main Positions:

Professorial Fellow, Mathematics Institute of the Romanian Academy

Full Professor, University of Craiova, Romania

3. Distinctions:

“Simion Stoilow” Prize of the Romanian Academy (1999)

Distinguished Foreign Professor, University of Ljubljana, Slovenia (2008)

Best Associate Editor of the *Journal of Mathematical Analysis and Applications* (2009)

Member of the *Accademia Peloritana dei Pericolanti* from Messina, founded in 1729 (since 2014)

Honorary Director, Institute of Mathematics of the Heilongjiang Institute of Technology, Harbin, China (since 2014)

In 2014, I became a *Highly Cited Researcher* (Thomson Reuters)

The Chinese Academy of Sciences and Thomson Reuters included me in the 2014 list of *The World's Most Influential Scientific Minds 2014*

Distinguished Adjunct Professor, King Abdulaziz University, Jeddah, Saudi Arabia (2014-2017)

Senior Research Fellow, City University of Hong Kong (2015)

Member of the *Accademia delle Scienze dell'Umbria* from Perugia, Italy (since 2017)

According to Google Scholar, I have 6774 citations and my Hirsch Index is 44. According to MathScinet, I am cited 4085 times by 1319 authors and my Hirsch Index is 35. My most cited paper has 286 citations (Google Scholar) and 181 citations (MathScinet).

4. Editorial Activities:

Member of the Editorial Board of the Academic Press *Mathematics in Science and Engineering* Book Series (Elsevier);

Editor-in-Chief and founder of *Advances in Nonlinear Analysis* (Walter de Gruyter);

Editor-in-Chief of *Boundary Value Problems* (Springer);

Associate Editor of *Nonlinear Analysis: Theory, Methods and Applications* (Elsevier), *Journal of Mathematical Analysis and Applications* (Elsevier), *Mathematical Methods in the Applied Sciences* (Wiley), *Complex Variables and Elliptic Equations* (Taylor & Francis), *Advances in Pure and Applied Mathematics* (de Gruyter), *Discrete and Continuous Dynamical Systems-S* (AIMS),

Electronic Journal of Differential Equations, Opuscula Mathematica (AGH University), *Journal of Numerical Analysis and Approximation Theory* (Romanian Academy)

I am co-editor of volumes published by the American Mathematical Society (3 volumes), Birkhäuser (2 volumes), and the American Institute of Physics. I am the Guest Editor of Special Issues published by the *Journal of Mathematical Analysis and Applications, Nonlinear Analysis, Complex Variables and Elliptic Equations, Communications in Pure and Applied Analysis, Boundary Value Problems*

5. Main Fields of Research:

Explicit formula for the renormalized energy of the Ginzburg-Landau functional and study of the minimal configuration of vortices. This solves an open problem of H. Brezis, F. Bethuel and F. Hélein.

Asymptotic analysis of the minimizers of the Ginzburg-Landau energy with weight and formula for the corresponding renormalized energy. I have also considered the singular case of vanishing weights. This solves an open problem of H. Brezis, F. Bethuel and F. Hélein.

Study of bifurcation problems with nonlinearity having asymptotic linear growth. This solves an open problem of H. Brezis and L. Nirenberg. The initial conjecture raised by H. Brezis and L. Nirenberg is related to the Gelfand problem. In our case, there are distinguished two completely different situations and the study performed in both cases is exhaustive. The analysis has been extended to multiple nonlinear terms, in such a case being studied combined effects of these nonlinearities.

Introduction of the Karamata regular variation theory in the asymptotic analysis of singular solutions with boundary blow-up for the logistic equation. We introduced for the first time the Karamata regular variation theory in the asymptotic analysis of blow-up boundary solutions of logistic-type equations.

Improvement of the statements concerning blow-up boundary solutions for nonlinear elliptic equations. Usually it is assumed that the nonlinear term should satisfy a monotonicity assumption in combination with the Keller-Osserman condition. We have proved that the monotonicity assumption can be removed and that the crucial role is played by the growth rate of the nonlinear term.

Contributions to the study of combined effects for nonlinear singular elliptic equations. There are studied multiple types of perturbations for nonlinear elliptic PDEs with singular terms and it is extended the Karamata approach to problems of this type.

Study of new spectral phenomena for differential operators with one or more variable exponents. Problems with variable exponents have important applications in electrorheological (non-Newtonian) fluids, image processing, or robotics. There are established several striking properties, which are due to this new type of nonlinearities.

Extension in a nonsmooth setting of several classical results from critical point theory. We work both in the framework of Clarke's generalized gradient derivative or by using the notion of "weak slope" introduced by De Giorgi. There are extended several classical results, including the Ambrosetti-Rabinowitz, Pucci-Serrin, Ghoussoub-Preiss, and Ljusternik-Schnirelmann theorems. There are provided several applications to nonsmooth mechanics or multi-valued problems.

Contributions to the study of hemivariational, variational-hemivariational and quasi-hemivariational inequality problems. We have established several qualitative properties in the case of the perturbations with constraints and we have established various applications. One of these applications concerns the study of inequality problems with area-type term.

Effect of non-symmetric perturbations for problems with a symmetric structure. We prove that the number of solutions becomes larger and larger as the perturbation tends to zero with respect to a suitable topology. The method introduced in our works has been extended by other mathematicians to other classes of problems.

Variational analysis on fractal domains. Using the definition of the Laplace operator on self-similar fractals, we extend the classical variational analysis to these irregular domains.

Contributions to mathematical biology. We have developed mathematical tools in the study of Gierer-Meinhardt systems or Turing patterns in reaction-diffusion systems.

Refinement of Morse-type arguments for the qualitative analysis of solutions of Neumann and Robin problems.

Study of nonlinear problems described by nonlocal fractional operators.

6. Publications:

More than 300 research papers and 10 books. Some renowned journals where my papers have been published: *J. Math. Pures Appl. (Journal de Liouville)* (5 papers), *Transactions Amer. Math. Soc.* (2 papers), *J. Differential Equations* (5 papers), *Nonlinearity* (3 papers), *Proceedings Amer. Math. Soc.* (5 papers), *Proc. Royal Soc. London: Mathematical, Physical and Engineering Sciences* (one paper), *Comm. Partial Differential Equations* (one paper), *Ann. Inst. H. Poincaré-Analyse Non Linéaire* (one paper), *Annali della Scuola Normale Superiore di Pisa, Classe di Scienze* (one paper), *Journal d'Analyse Mathématique* (one paper), *Israel Journal of Mathematics* (3 papers), *Ann. Inst. Fourier-Grenoble* (one paper), *Calculus of Variations and Partial Differential Equations* (3 papers), *Proc. Royal Soc. Edinburgh* (5 papers), *Bull. London Math. Soc.* (one paper), *Comm. Contemp. Math.* (4 papers), *Ann. Mat. Pura Appl.* (one paper), *Math. Scand.* (2 papers), *Optimization* (one paper), *Optimization Letters* (2 papers), *J. Global Optimiz.* (5 papers), *Nonlinear Anal.: Real World Appl.* (5 papers), *Nonlinear Anal.: Theory, Methods & Appl.* (13 papers), *J. Math. Anal. Appl.* (9 papers), *Manuscripta Mathematica* (3 papers), *Ann. Acad. Sci. Fenn.* (4 papers), *Analysis and Applications* (5 papers), *ZAMP* (2 papers), *C. R. Acad. Sci. Paris* (22 papers).

7. Other Mathematical Activities:

I published 10 proposed problems in the *American Mathematical Monthly* and 2 problems in *SIAM Problems and Solutions*. I also published the *Opinion* "Agenda for a Mathematical Renaissance" in the *Notices of the American Mathematical Society*.

EXTENDED CURRICULUM VITAE

Last name: Rădulescu

First name: Vicențiu

Date and place of birth: 11 May 1958 at Caracal, Romania

Education:

- B. Sc., Master and Ph.D.: Faculty of Mathematics, University of Craiova, Romania
- Ph.D.: Laboratoire d'Analyse Numérique, Université Pierre et Marie Curie (Paris 6)
- Habilitation: Laboratoire Jacques-Louis Lions, Université Pierre et Marie Curie (Paris 6)

Present positions:

- Professorial Fellow at the Institute of Mathematics “Simion Stoilow” of the Romanian Academy, Bucharest, Romania
- Full Professor at the Department of Mathematics, University of Craiova, Romania
- Distinguished Adjunct Professor, King Abdulaziz University, Jeddah, Saudi Arabia (2014-2017)
- Honorary Director of the Institute of Applied Mathematics, Harbin, China (since 2014)
- Researcher in the *Topology, Geometry and Nonlinear Analysis Group* of the Institute for Mathematics, Physics and Mechanics, University of Ljubljana, Slovenia (since 2009)

Address: Department of Mathematics, University of Craiova, 200 585 Craiova, Romania, phone: (+40) 251.412615; fax: (+40) 251.411688

E-mail: vicentiu.radulescu@math.cnrs.fr vicentiu.radulescu@imar.ro

Web pages: <http://www.math.ucv.ro/~radulescu> <http://www.imar.ro/~vradules>

Degrees:

- December 1993: Ph. D. at the University of Craiova, Romania with the thesis *Applications of Operator Theory to Nonlinear Analysis*. Adviser: Prof. Constantin Niculescu.
- June 1995: Ph.D. at the Laboratoire d'Analyse Numérique, Université Pierre et Marie Curie from Paris under the coordination of Professor Haim Brezis, with the thesis *Analysis of Some Problems Related to the Ginzburg-Landau Equation*. The commission was composed by the following Professors: Haim Brezis, Fabrice Béthuel, Thierry Cazenave, Doina Cioranescu, Alain Haraux, Frédéric Hélein and L.A. Peletier. For this thesis I received the highest academic distinction: *très honorable avec félicitations*.
- February 2003: Habilitation “à diriger des recherches” at the Université Pierre et Marie Curie (Paris 6): *Analyse de quelques problèmes aux limites elliptiques non linéaires*. Mémoire realized under the coordination of Professor Haim Brezis (member of the French Academy - Institut de France). The reports have been written by Prof. Catherine Bandle, Prof. Otared Kavian and Prof. Michel Willem. The other members of the commission were Prof. Fabrice Bethuel, Prof. Doina Cioranescu and Prof. Laurent Véron.

Scientific and honorary awards:

- Simion Stoilow Prize of the Romanian Academy, 1999
- Prize for Excellence in Research of the Romanian Research Council, 2007
- Distinguished Foreign Professor, University of Ljubljana (July–September 2008)
- Best Associate Editor of the *Journal of Mathematical Analysis and Applications*, 2009
- Award of the Editors-in-Chief of the *Journal of Mathematical Analysis and Applications* for the activity as Associate Editor, 2013
- Member of the *Accademia Peloritana dei Pericolanti*, Messina (since January 2014)

- Highly Cited Researcher 2014
- Honorary Director, Institute of Mathematics of the Heilongjiang Institute of Technology, Harbin, China (since 2014)
- Senior Research Fellow, City University of Hong Kong, 2015
- Member of the *Accademia delle Scienze dell'Umbria*, Perugia (since 2017)

Academic experience:

- 1977–1982: Faculty of Mathematics, University of Craiova, Romania
- 1982–1990: High-school Mathematics teacher
- 1990–1992: Assistant, Department of Mathematics, University of Craiova, Romania
- 1992–1995: Lecturer, University of Craiova, Romania
- 1995–1998: Associate Professor, University of Craiova, Romania
- 1998 to Present : Full Professor, Department of Mathematics, University of Craiova, Romania
- 2007 to Present : Professorial Fellow, Institute of Mathematics “Simion Stoilow” of the Romanian Academy, Bucharest, Romania
- 2008-2015 : Associate Professor at the University A.I. Cuza of Iași
- 2008 to Present : Member of the Scientific Board of the *Laboratoire Européen Associé CNRS Franco–Roumain Mathématiques & Modélisation* between the *Laboratoire de Mathématiques de l'Université Paris-Sud (Orsay)* and the “Simion Stoilow” Mathematics Institute of the Romanian Academy
- 2011-2015 : Member of the National Council for Titles, Diplomas and Certificates (Mathematics and Natural Sciences Commission)
- 2014-2017 : Distinguished Adjunct Professor, King Abdulaziz University, Jeddah, Saudi Arabia
- 2014 to Present : Honorary Director of the Institute of Applied Mathematics, Harbin, China

Editorial activities:

- Member of the Editorial Board of the new Academic Press *Mathematics in Science and Engineering* Book Series (Elsevier)
- Acquisition Editor, *De Gruyter Open Book Publishing Program in Mathematics*
- Editor-in-Chief of *Advances in Nonlinear Analysis* (Walter de Gruyter)
- Editor-in-Chief of *Boundary Value Problems* (Springer, 2011 ISI Impact Factor: 1.068)
- Associate Editor of *Nonlinear Analysis: Theory, Methods & Applications* (Elsevier, 2011 ISI Impact Factor: 1.536)
- Associate Editor of the *Journal of Mathematical Analysis and Applications* (Elsevier, 2011 ISI Impact Factor: 1.001)
- Advisory Editor of *Mathematical Methods in the Applied Sciences* (Wiley)
- Member of the Editorial Board of *Complex Variables and Elliptic Equations* (Taylor & Francis, 2011 ISI Impact Factor: 0.532)
- Associate Editor of the *Electronic Journal of Differential Equations* (2011 ISI Impact Factor: 0.427)
- Editor of *Advances in Pure and Applied Mathematics* (Walter de Gruyter)
- Associate Editor of *Discrete and Continuous Dynamical Systems, Series S* (American Institute of Mathematical Sciences)
- Member of the Editorial Committee of *Opuscula Mathematica* (Krakow University)
- Member of the Editorial Board of the *Journal of Mathematics and Applications* (Rzeszow University of Technology)
- Member of the Editorial Board of “MATHlics Research Paper Series Applied MATHematics Journal for EconomICS” (edited by MEDALics–Research Centre on Mediterranean Relations)

- Member of the Editorial Board of *Journal of Numerical Analysis and Approximation Theory* (Romanian Academy)
- Member of the Editorial Board of *Ann. St. Univ. Ovidius Constanta*
- Member of the Editorial Advisory Board of the *Journal of Advanced Mathematical Studies*
- Editor in Chief of the *Annals of the University of Craiova - Mathematics and Computer Science Series*
- Member of the Editorial Board of *Publications of the Centre for Nonlinear Analysis and its Applications*
- Associate Editor of *Arhimede*
- Associate Editor of the *Bulletin of Mathematical Analysis and Applications* (2008–2011)
- Honorary Editor of the *International Journal of Mathematical Analysis* (2011-2015)

Fields of interest:

- nonlinear partial differential equations of elliptic type
- degenerate and singular phenomena in mathematical physics (logistic equations with blow-up boundary, nonlinear PDEs with singular terms, PDEs on fractal domains)
- topological and variational methods with applications to nonlinear partial differential equations and unilateral problems
- bifurcation theory and applications to mathematical physics, chemistry, and mathematical biology
- spectral analysis for non-homogeneous differential operators and applications to electrorheological fluids

Courses:

- *Functional Analysis* (10 hours, Central European University, Budapest, September 2002)
- *Nonlinear Analysis and Mathematical Physics* (52 hours, École Normale Supérieure, Bucharest, Academic year 2005-2006)
- *Applied Functional Analysis and Partial Differential Equations* (48 hours, École Normale Supérieure, Bucharest, Academic year 2010-2011)
- *Comparison Principles and Critical Point Methods in Nonlinear Analysis*, Mini-courses in Mathematical Analysis, University of Padova, June 18-22, 2012
- *Singular Phenomena in Nonlinear Elliptic Equations*, Mini-courses in Partial Differential Equations, Women in Mathematics Summer School, ICTP, Trieste, May 27–June 1, 2013
- *Nonlinear Analysis* (60 hours), AGH University of Science and Technology, Krakow, November 2017

Between 2002 and 2014 I organized the *Ateliers d'Écriture Scientifique* at the Doctoral School of the Université de Picardie “Jules Verne”, Amiens.

Visiting Professor Positions:

- University of Uppsala (two weeks in October 1995)
- Politecnico di Milano (March 1996, with a CNR research grant)
- Freie Universität in Berlin (two weeks in May 1996)
- Aristotle University in Thessaloniki (June 1996)
- Leiden University (October and November 1996)
- Università Cattolica di Brescia (March 1997, with a CNR research grant)
- Aristotle University in Thessaloniki (May 15 - June 15, 1997)
- Universities of Sussex and Oxford (December 15, 1997 - February 15, 1998), with a Royal Society Research Fellowship

- 1998-2000: PAST Visiting Professor at the Laboratoire d'Analyse Numérique, Université Pierre et Marie Curie (Paris 6)
- Université Catholique de Louvain (Belgium) in November 1998
- University of Perugia (Nov. 15 - Dec. 15, 1999, with a CNR research grant)
- Université Pierre et Marie Curie (March 1 - May 31, 2001) with a CNRS research visiting position at the Laboratoire d'Analyse Numérique
- Université Catholique de Louvain (Belgium) in October 2001
- Université de Picardie "Jules Verne", Amiens (February 2002)
- Politecnico di Milano (June–July 2002, with a GNAMPA–INdAM Visiting Professor position)
- Université de Savoie–Chambéry (September 1 - November 30, 2002) with a CNRS research visiting position
- Central-European University, Budapest (10 days in September 2002)
- Université de Picardie "Jules Verne", Amiens (February 2003)
- Université de Tunis El Manar (two weeks in April 2003)
- Institut Elie Cartan, Université Henri Poincaré (Nancy I) (May 2003)
- Mathematisches Institut, Basel Universität (two weeks in June 2003)
- Université de Perpignan (July 2003)
- Université de Picardie "Jules Verne", Amiens (February 2004)
- Université de Savoie–Chambéry (two weeks in March 2004)
- Université de Tunis El Manar (two weeks in April 2004)
- Université Catholique de Louvain (Belgium) in November 2004
- Université de Picardie "Jules Verne", Amiens (February 2005)
- Universidad Complutense de Madrid (one week in March 2005)
- City University of Hong Kong (two weeks in April 2005)
- Université de Tunis El Manar (two weeks in May 2005)
- Université de Franche Comté and Université de Limoges (two weeks in November 2005)
- Université de Picardie "Jules Verne", Amiens (February 2006)
- Université de Tunis El Manar (one week in May 2006)
- Université de Poitiers (June 2006)
- Université de Savoie (two weeks in August 2006)
- Central European University in Budapest (one week in September 2006)
- Université de Picardie "Jules Verne", Amiens (one week in October 2006)
- University of Perugia (November 2006, with a GNAMPA–INdAM Visiting Professor position)
- Université de Picardie "Jules Verne", Amiens (February 2007)
- Université de Tunis El Manar (one week in March 2007)
- Université de Haute Alsace (May 2007)
- Université de La Rochelle (one week in July 2007)
- Approximation and Wavelets, Bilateral Workshop Romania-Germany, October 1-4, 2007, Königswinter, Germany
- Université Catholique de Louvain (December 2007)
- Université de Picardie "Jules Verne", Amiens (February 2008)
- Université de Tunis El Manar (two weeks in March 2008)
- Université de Limoges (May 2008)
- Université de Tours (June 2008)
- University of Perugia (two weeks in July 2008) with a GNAMPA–INdAM Visiting Professor position

- Visiting Professor, Institute of Mathematics, Physics and Mechanics, University of Ljubljana (July–September 2008)
- University of Cagliari (two weeks in October 2008)
- Scuola Normale Superiore di Pisa (one week in October 2008)
- City University of Hong Kong (one week in December 2008)
- Université de Picardie “Jules Verne”, Amiens (February 2009)
- Université de Tunis El Manar (one week in April 2009)
- University of Rzeszów (one week in May 2009)
- University of Ljubljana (one week in May 2009)
- Université Pierre et Marie Curie Paris VI (one week in August 2009)
- Université de La Rochelle (one week in September 2009)
- Université de Picardie “Jules Verne”, Amiens (February 2010)
- University of Rousse, Bulgaria (one week in April 2010)
- University of Messina, Italy (one week in April 2010)
- Universidad Autónoma de Madrid (one week in June 2010)
- University of Oulu, Finland (one week in June 2010)
- Institut Henri Poincaré, Paris (one week in November 2010)
- Université de Tunis El Manar (one week in January 2011)
- Université de Picardie “Jules Verne”, Amiens (May 2011)
- University of Oxford (one week in November 2011)
- University of Monastir (one week in March 2012)
- Université de Poitiers (one week in March 2012)
- Jagiellonian and AGH University of Science and Technology of Krakow (one week in May 2012)
- University of Perugia (15 May–15 June 2012) with a GNAMPA–INdAM Visiting Professor position
- Université de Picardie “Jules Verne”, Amiens (November 2012)
- Universities of Catania and Reggio Calabria (two weeks in January 2013)
- Université de Besançon (March 2013)
- Université de Poitiers (April 2013)
- Université de Tanger, Maroc (two weeks in May 2013)
- ICTP Trieste (one week in May 2013)
- King Abdulaziz University, Jeddah, Saudi Arabia (one week in September 2013)
- Universities of Reggio Calabria and Messina (one week in October 2013)
- Université de Picardie “Jules Verne”, Amiens (November 2013)
- Isaac Newton Institute, Cambridge, Programme *Free Boundary Problems and Related Topics* (G.-Q. Chen, H. Shahgholian, J.-L. Vázquez, organizers), 6 January–4 July, 2014
- University of Ljubljana (one week in January 2014)
- Université Cadi Ayyad, Marrakech (one week in March 2014)
- King Abdulaziz University, Jeddah, Saudi Arabia (two weeks in April 2014)
- University of Pisa (one week in May 2014)
- Recent Trends in Nonlinear Partial Differential Equations and Applications Celebrating Enzo Mitidieri’s 60th Birthday, University of Trieste, 28–30 May 2014
- Universidad Autónoma de Madrid (one week in July 2014)
- Université de Picardie “Jules Verne”, Amiens (November 2014)
- King Abdulaziz University, Jeddah, Saudi Arabia (two weeks in December 2014)
- University of Perugia (one week in January 2015)
- Senior Research Fellow, City University of Hong Kong (February 2015)

- King Abdulaziz University, Jeddah, Saudi Arabia (two weeks in April 2015)
- King Saud University, Riyadh, Saudi Arabia (one week in May 2015)
- Isaac Newton Institute, Cambridge, Programme *Coupling Geometric PDEs with Physics for Cell Morphology, Motility and Pattern Formation* (R. Leube, A. Madzvamuse, R. Merkel, H. Othmer, organizers), 13 July–18 December, 2015
- Université de Pau (two weeks in October 2015)
- King Saud University, Riyadh, Saudi Arabia (one week in November 2015)
- King Abdulaziz University, Jeddah, Saudi Arabia (two weeks in December 2015)
- University of Stockholm (one week in January 2016)
- Université de Tunis (one week in March 2016)
- King Abdulaziz University, Jeddah, Saudi Arabia (two weeks in April 2016)
- University of Perugia (one week in September 2016)
- King Saud University, Riyadh, Saudi Arabia (one week in October 2016)
- Université de Picardie “Jules Verne”, Amiens (November 2016)
- King Abdulaziz University, Jeddah, Saudi Arabia (two weeks in December 2016)
- University of Perugia (one week in January 2017)
- AGH University of Science and Technology, Krakow (November 2017)
- University of Perugia (one week in January 2018)
- University of Stockholm (one week in February 2018)
- King Saud University, Riyadh, Saudi Arabia (one week in April 2018)

Lectures delivered abroad:

- University of Wisconsin, Madison, USA (June 1991), on the occasion of the Conference *Mary Ellen Rudin and Her Work*
- Hyères, France (May 1993) at the 25ème Congrès National d’Analyse Numérique
- Almeria, Spain (June 1993) at the Summer School organized by Universidad Complutense from Madrid
- Université Pierre et Marie Curie (Paris 6), Laboratoire d’Analyse Numérique (1994 and 1995)
- ENS Paris (May 1994), at the 2nd French-Romanian Colloquium
- University of Uppsala (October 1995)
- Universities of Brescia, Trento, Padova, Milano, Politecnico di Torino and Politecnico di Milano (March 1996)
- Freie Universität from Berlin (two talks in May 1996)
- Plenary lecture at the 3rd French-Romanian Colloquium (September 1996)
- Universities of Leiden (5 talks), Delft, Louvain-la-Neuve, Namur, Aachen (2 talks) and Rouen (October–November 1997)
- Universities of Brescia, Povo-Trento, Milano, Roma - Tor Vergata and Politecnico di Milano (March 1997)
- University of Delaware (June 3-7, 1997): ISAAC’97, the First International Congress of the International Society for Analysis, its Applications and Computation, with the paper “Perturbation techniques for hemivariational eigenvalue problems”
- University of Sussex at Brighton (February 1998)
- Université de Limoges (May 1998, June 1999, May 2000 and November 2002)
- Universités Catholique de Louvain-la-Neuve and Libre de Bruxelles (November 1998, April 2000, October 2001)
- Universités de Montpellier (April 1999) et de Nancy (June 1999, May 2001, May 2003)

- Universities of Rome Tor-Vergata, Politecnico Milano, Brescia, Trento-Povo and Perugia (Nov.-Dec. 1999)
- Plenary lecture at the 5th French-Romanian Colloquium (August 2000)
- Romanian Academy of Sciences (February 2001)
- Université de Savoie-Chambéry (April 2001, October 2002, February 2006)
- Université de Paris 6 (Analyse Numérique and Théorie du Potentiel, May 2001)
- Université de Picardie-Amiens (May 2001, three talks in February 2002, two talks in February 2003, three talks in February 2004, November 2004, February 2005, February 2006)
- Université de Strasbourg (May 2001)
- CIMPA-UNESCO-CEU School on Functional Analysis, Partial Differential Equations and Numerical Analysis, Budapest, Central-European University, September 2002 [10 courses (=20h) on Functional Analysis]
- Université de Tunis El Manar (April 2003, April 2004, May 2005, May 2006)
- Mathematisches Institut, Universität Basel (June 2003)
- Université de Perpignan (July 2003)
- 21st IFIP TC 7 Conference on System Modelling and Optimization, Sophia Antipolis, France, July 21-25, 2003. Organized by the International Federation for Information Processing.
- Fifth European Conference on Elliptic and Parabolic Problems: A Special Tribute to the Work of Haim Brezis, Gaeta, May 30 - June 3, 2004
- Fourth European Congress of Mathematics, Stockholm, June 27 - July 2, 2004
- Université Catholique de Louvain (two talks in November 2004)
- Universidad Complutense de Madrid (March 2005)
- City University of Hong Kong (April 2005)
- Université de Franche Comté (November 2005)
- Université d'Orléans (February 2006)
- Institute of Mathematics "Simion Stoilow" of the Romanian Academy (March 2006)
- Université de La Rochelle (June 2006)
- Journée sur les équations aux dérivées partielles non linéaires, Université de La Rochelle (June 2006)
- 6th International Conference on Dynamical Systems and Differential Equations (American Institute of Mathematical Sciences), Poitiers, June 2006
- Conférence Francophone sur la Modélisation Mathématique en Biologie et en Médecine, Craiova, July 12-14, 2006
- Plenary lecture at the 8th French-Romanian Colloquium, Chambéry, August 2006
- International Conference on Applied Analysis and Differential Equations, Iasi, September 4-9, 2006
- Central European University, Budapest, September 2006
- Workshop on Potential Analysis, Institute of Mathematics "Simion Stoilow" of the Romanian Academy, Bucharest (October 2006)
- Politecnico di Milano and Universities of Perugia (3 talks), La Sapienza (Rome 1), Tor Vergata (Rome 2), Naples, Milano, Florence, Pise and Bologna (November 2006)
- Plenary lecture at the 15th Colloque de la Société Mathématique de Tunisie (Sousse, 19-22 March 2007)
- Plenary lecture at the International Conference on Nonlinear Operators, Differential Equations and Applications, Cluj, July 4-8, 2007
- Summer School "Critical Point Theory and Applications", Cluj, July 9-13, 2007

List of Publications - Lucian BEZNEA

Monographs:

- L. Beznea and N. Boboc: *Potential Theory and Right Processes*. (Mathematics and Its Applications, vol. **572**), Kluwer Academic Publishers/Springer 2004, 376 p.

Scientific Publications:

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- L. Beznea: A topological characterization of complete distributive lattices. *Discrete Math.* **49** (1984), 117–120.

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- L. Beznea, A. Gheondea, P. Hästö, Cezar Joița, A. Rasila, and M. Vuorinen (guest editors): *Complex Anal. Oper. Theory* **11** (2017), no. 8. Special Issue: Trends in Modern Analysis.
- L. Beznea, V. Brînzănescu, M. Iosifescu, and D. Timotin (editors): *Advances in Mathematics – Proceedings of the Eighth Congress of Romanian Mathematicians, Iași, 2015*. The Publishing House of the Romanian Academy, Bucharest, 2017.
- D. Bakry, L. Beznea, and M. Röckner (guest editors): *Revue Roumaine Math. Pures Appl.* **59**, No. 1, 2014 (Special issue dedicated to Professor Nicu Boboc on the occasion of his 80th birthday).
- L. Beznea, A. Gheondea, P. Hästö, C. Joița, and M. Vuorinen (editors): *Selected papers from the International Conference on Complex Analysis and Related Topics, and the 13th Romanian-Finnish Seminar (26-30 June 2012)*, *Math. Reports* **15** (65), No. 4, 2013.
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- L. Beznea, A. Gheondea, P. Hästö, and M. Vuorinen (guest editors): *Complex Anal. Oper. Theory* **5** (2011), no. 3. Special Issue: Trends in Modern Complex Analysis.
- L. Beznea, V. Brînzănescu, M. Iosifescu, S. Marcus, and D. Timotin (editors): *Proceedings of The Sixth Congress of Romanian Mathematicians, Bucharest, 2007. Volume 2, Plenary Reports*. Editura Academiei Romane, Bucharest, 2009.
- L. Beznea, V. Brînzănescu, C. S. Calude, H. Ene, M. Iosifescu, S. Marcus, R. Purice, and D. Timotin (editors): *Proceedings of The Sixth Congress of Romanian Mathematicians, Bucharest, 2007. Volume 1, Scientific Contributions*. Editura Academiei Romane, Bucharest, 2009.

- D. Bakry, L. Beznea, N. Boboc, and M. Röckner (editors): *Potential Theory and Stochastics in Albac. Aurel Cornea Memorial Volume*. Theta Foundation Bucharest, 2009 (distributed by Amer. Math. Soc.).
- D. Bakry, L. Beznea, Gh. Bucur, and M. Röckner (editors): *Current Trends in Potential Theory - Conference Proceedings, Bucharest, September 2002 and 2003*. Theta Foundation Bucharest, 2005 (distributed by Amer. Math. Soc.).
- L. Beznea and Gh. Bucur (editors): *Fifty Years of Modern Potential Theory in Bucharest - To the Anniversary of Nicu Boboc*. Editura Universității din București, 2004.

Ph. D. Thesis:

- *Teoria potențialului - clasificări în conuri de potențiale* [*Potential Theory - Classifications in Cones of Potentials*], Universitatea din București, 1990, 105 p. Ph. D. supervisor: Nicu Boboc.

Curriculum vitae

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1 Studii efectuate

- Mai 2013 - Abilitare, Institutul de Matematica "Simion Stoilow" al Academiei Romane. Titlul tezei: Boundary value problems with ϕ -Laplacians. Comisia: C. LEFTER (presedinte), G. MOROSANU, A. PETRUSEL.

- Decembrie 2006 - Doctorat in Matematica, Universite catholique de Louvain. Titlul dizertatiei: Topological degree methods for some nonlinear problems. Memebrii juriului: J. MAWHIN (conducator), P. HABETS (presedinte), M. WILLEM, C. FABRY, G. DINCA, F. ZANOLIN.

- Februarie 2002 - Masterat, Universitatea din Bucuresti, coordonator G. DINCA. Dizertatia: Metode topologice si variationale in studiul unor clase de ecuatii neliniare.

- Iunie 2000 - Licenta in matematica, Universitatea din Bucuresti, coordonator R. CRISTESCU. Lucrarea de licenta: Reprezentari integrale ale unor operatori liniari.

2 Experienta profesionala

- Septembrie 2002 - Septembrie 2008 - Asistent - Departamentul de Matematica, Univ. catholique de Louvain.

- Octombrie 2008 - Martie 2014 - Cercetator stiintific (C.S.), Institutul de Matematica "Simion Stoilow" al Academiei Romane.

- Martie 2014 - prezent - Cercetator stiintific III (C.S. III), Institutul de Matematica "Simion Stoilow" al Academiei Romane.

- Octombrie 2013 - Septembrie 2014 - Profesor universitar, Universitatea din Pitesti.

- Septembrie 2014 - prezent - Conferentiar universitar, Universitatea din Bucuresti.

3 Granturi ca director

- Octombrie 2011 - Octombrie 2014 - "Critical point theory and degree theory for relativistic Laplacians", PN II / RU - TE - 2011 - 3 - 0157, 750 000 RON.

- Septembrie 2011 - Februarie 2012 - GENIL grant YTR-2011-7 (Spania), 12 000 EURO.

- Iunie 2009 - Iunie 2011 - "Topological and variational methods in the study of some discrete or continuous boundary value problems", PN II / RP-3/2008, 430 000 RON.

4 Premii

- Premiul "Gheorghe Titeica" al Academiei Romane pe anul 2010.

5 Lista de lucrari

1. C. Bereanu, D. de la Fuente, A. Romero, P.J. Torres, Existence and multiplicity of entire radial spacelike graphs with prescribed mean curvature function in certain Friedmann-Lemaitre-Robertson-Walker spacetimes, *Commun. Contemp. Math*, 19 (2017), 18 pp.

2. C. Bereanu, P. Jebelean, J. Mawhin, The Dirichlet problem with mean curvature operator in Minkowski space - a variational approach, *Advanced Nonlin. Studies*, 14 (2014), 315-326.

3. C. Bereanu, P. Jebelean, J. Mawhin, Multiple radial solutions at resonance for Neumann problems involving the mean extrinsic curvature operator, *Progress in Nonlinear Differential Equations and Their Applications*, 85 (2014), 87-101.

4. C. Bereanu, P. Jebelean, P.J. Torres, Positive radial solutions for Dirichlet problems with mean curvature operators in Minkowski space, *J. Functional Analysis*, 264 (2013), 270-287.

5. C. Bereanu, P. Jebelean, P.J. Torres, Multiple positive radial solutions for a Dirichlet problem involving the mean curvature operator in Minkowski space, *J. Functional Analysis*, 265 (2013), 644-659.

6. C. Bereanu, P. Jebelean, J. Mawhin, Radial solutions for Neumann problems involving mean extrinsic curvature and periodic nonlinearities, *Calc. Var. Partial Differential Equations*, 46 (2013), 113-122.

7. C. Bereanu, P. Jebelean, Multiple critical points for a class of periodic lower semicontinuous functionals, *Discrete Contin. Dyn. Syst.*, 33 (2013), 47-66.
8. C. Bereanu, D. Gheorghe, M. Zamora, Non-resonant boundary value problems with singular ϕ -Laplacian operators, *NoDEA Nonlinear Differ. Equ. Appl.*, 20 (2013), 1365-1377.
9. C. Bereanu, D. Gheorghe, M. Zamora, Periodic solutions for singular perturbations of the singular ϕ -Laplacian operator, *Commun. Contemp. Math.*, 15 (2013), 22 pp.
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12. C. Bereanu, P. Jebelean, C. Serban, Ground state and mountain pass solutions for discrete $p(\cdot)$ -Laplacian, *Bound. Value Probl.*, 2012:104, 13 pp.
13. C. Bereanu, P. Jebelean, C. Serban, Nontrivial solutions for a class of one-parameter problems with singular ϕ -Laplacian, *Ann. Univ. Buchar. Math. Ser.*, 3(LXI) (2012), 155-162.
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15. C. Bereanu, P. Jebelean, J. Mawhin, Multiple solutions for Neumann and periodic problems with singular ϕ -Laplacians, *J. Functional Analysis*, 261 (2011), 3226-3246.
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18. C. Bereanu, P. Jebelean, J. Mawhin, Radial solutions for Neumann problems involving mean curvature operators in Euclidean and Minkowski spaces, *Math. Nachr.*, 283 (2010), 379-391.
19. C. Bereanu, P. Jebelean, J. Mawhin, Periodic solutions of pendulum-like perturbations of singular and bounded ϕ -Laplacians, *J Dynam. Differential Equations*, 22 (2010), 463-471.

20. C. Bereanu, P. Jebelean, J. Mawhin, Radial solutions for some nonlinear problems involving mean curvature operators in Euclidean and Minkowski spaces, *Proc. Amer. Math. Soc.*, 137 (2009), 171-178.
21. C. Bereanu, J. Mawhin, Nonhomogeneous boundary value problems for some nonlinear equations with singular ϕ -Laplacian, *J. Math. Anal. Appl.*, 352 (2009), 218-233.
22. C. Bereanu, Periodic solutions of some fourth-order nonlinear differential equations, *Nonlinear Anal.*, 71 (2009), 53-57.
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28. C. Bereanu, J. Mawhin, Periodic solutions of nonlinear perturbations of ϕ -Laplacians with possible bounded ϕ , *Nonlinear Anal.*, 68 (2008), 1668-1681.
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32. C. Bereanu, J. Mawhin, Existence and multiplicity results for some nonlinear problems with singular ϕ -Laplacian, *J. Differential Equations*, 243 (2007), 536-557.
33. C. Bereanu, H.B. Thompson, Periodic solutions of second order nonlinear difference equations with discrete ϕ -Laplacian, *J. Math. Anal. Appl.*,

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34. C. Bereanu, J. Mawhin, Periodic solutions of first order nonlinear difference equations, *Rend. Semin. Mat. Univ. Politec. Torino*, 65 (2007), 17-33.

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36. C. Bereanu, On a multiplicity result of J.R. Ward for superlinear planar systems, *Topol. Methods Nonlinear Anal.*, 27 (2006), 289-298.

37. C. Bereanu, J. Mawhin, Existence and multiplicity results for nonlinear difference equations with Dirichlet boundary conditions, *Math. Bohem.*, 131 (2006), 145-160.

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41. C. Bereanu, J. Mawhin, Nonlinear Neumann boundary value problems with ϕ -Laplacian operators, *An. Stiint. Univ. Ovidius Constanta Ser. Mat.*, 12 (2004), 73-82.

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Upgrade courses

Three months stage in University of Makedonia, Greece. In this place I come in on study for mathematical models used in Sun network communication security, the results of research was published in security issues from USA and Greece

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American Mathematical Society, since 2002

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Mathematical Reviews

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