

Curriculum vitae

Cristian Bereanu

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.
10. C. Bereanu, P. Jebelean, C. Serban, Periodic and Neumann problems for discrete $p(\cdot)$ -Laplacian, *J. Math. Anal. Appl.*, 399 (2013), 75-87.
11. C. Bereanu, P.J. Torres, Existence of at least two solutions of the forced relativistic pendulum, *Proc. Amer. Math. Soc.*, 140 (2012), 2713-2719.
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.
14. C. Bereanu, P. Jebelean, J. Mawhin, Variational methods for nonlinear perturbations of singular ϕ -Laplacians, *Atti Acad. Naz. Lincei Cl. Sci. Fis. Mat. Natur. Rend. Lincei (9) Mat. Appl.*, 22 (2011), 89-111.
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.
16. C. Bereanu, D. Gheorghe, Topological methods for boundary value problems involving discrete vector ϕ -Laplacians, *Topol. Methods Nonlinear Anal.*, 38 (2011), 265-276.
17. C. Bereanu, P. Jebelean, J. Mawhin, Radial solutions for Neumann problems with ϕ -Laplacians and pendulum-like nonlinearities, *Discrete Contin. Dyn. Syst.*, 28 (2010), 637-648.
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.
23. C. Bereanu, P. Jebelean, J. Mawhin, Nonhomogeneous boundary value problems for ordinary and partial differential equations involving singular ϕ -Laplacians, *Mat. Contemp.*, 36 (2009), 51-65.
24. C. Bereanu, P. Jebelean, J. Mawhin, Radial solutions for systems involving mean curvature operators in Euclidean and Minkowski spaces, 50-58, *AIP Conf. Proc.*, 1124, Amer. Inst. Phys., Melville, NY, 2009.
25. C. Bereanu, J. Mawhin, Multiple periodic solutions of ordinary differential equations with bounded nonlinearities and ϕ -Laplacian, *NoDEA Nonlinear Differ. Equ. Appl.*, 15 (2008), 159-168.
26. C. Bereanu, J. Mawhin, Boundary value problems for some nonlinear systems with singular ϕ -Laplacian, *J. Fixed Point Theory Appl.*, 4 (2008), 57-75.
27. C. Bereanu, An Ambrosetti-Prodi-type result for periodic solutions of the telegraph equation, *Proc. Roy. Soc. Edinburgh Sect. A.*, 138 (2008), 719-724.
28. C. Bereanu, J. Mawhin, Periodic solutions of nonlinear perturbations of ϕ -Laplacians with possible bounded ϕ , *Nonlinear Anal.*, 68 (2008), 1668-1681.
29. C. Bereanu, Periodic solutions of the nonlinear telegraph equations with bounded nonlinearities, *J. Math. Anal. Appl.*, 343 (2008), 758-762.
30. C. Bereanu, Multiple periodic solutions of some Lienard equations with p -Laplacian, *Bull. Belg. Math. Soc. Simon Stevin*, 15 (2008), 277-285.
31. C. Bereanu, J. Mawhin, Boundary value problems for second order nonlinear difference equations with discrete and singular ϕ -Laplacian, *J. Difference Equ. Appl.*, 14 (2008), 1099-1118.
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.*,

330 (2007), 1002-1015.

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

35. C. Bereanu, J. Mawhin, Boundary value problems with non-surjective ϕ -Laplacian and one-sided bounded nonlinearity, *Adv. Differential Equations*, 11 (2006), 35-60.

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.

38. C. Bereanu, J. Mawhin, Existence and multiplicity results for periodic solutions of nonlinear difference equations, *J. Difference Equ. Appl.*, 12 (2006), 677-695.

39. C. Bereanu, J. Mawhin, Upper and lower solutions for periodic problems: first order difference vs first order differential equations, 30-36, *AIP Conf. Proc.*, 835, Amer. Inst. Phys., Melville, NY, 2006.

40. C. Bereanu, Periodic solutions for delay competitions systems and delay prey-predator systems, *Adv. Nonlinear Stud.*, 5 (2005), 393-410.

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.