

TOPOLOGICAL AND VARIATIONAL METHODS IN THE STUDY OF SOME DISCRETE OR CONTINUOUS BOUNDARY VALUE PROBLEMS

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Jun 2009 - Jun 2011

Papers

1. C. Bereanu, P. Jebelean, J. Mawhin, Radial solutions for Neumann problems with ϕ -Laplacians and pendulum-like nonlinearities, **Discrete Cont. Dynamical Systems**, 28 (2010), 637-648.
<http://aimsciences.org/journals/displayArticles.jsp?paperID=5107>
2. 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.
<http://onlinelibrary.wiley.com/doi/10.1002/mana.200910083/abstract>
3. C. Bereanu, P. Jebelean, J. Mawhin, Periodic solutions of pendulum-like perturbations of singular and bounded ϕ -Laplacians, **J Dyn Diff Equat.**, 22 (2010), 463-471.
<http://www.springerlink.com/content/w335jp072020049n/>
4. C. Bereanu, P. Jebelean, J. Mawhin, Variational methods for nonlinear perturbations of singular ϕ -Laplacians, **Atti Accad. Naz. Lincei Cl. Sci. Fis. Mat. Natur. Rend. Lincei (9) Mat. Appl.**, to appear.
5. C. Bereanu, D. Gheorghe, Topological methods for boundary value problems involving discrete vector ϕ -Laplacians, **Topological Methods Nonlinear Analysis**, to appear.
6. C. Bereanu, P.J. Torres, Existence of at least two periodic solutions of the forced relativistic pendulum, preprint.
7. C. Bereanu, P. Jebelean, J. Mawhin, Radial solutions of Neumann problems involving mean extrinsic curvature and periodic nonlinearities, preprint.

Research visits

1. **West University**, Timișoara, Oct 25 2009-Nov 07 2009.
2. **Université catholique de Louvain**, Louvain la Neuve, Belgium, Nov 18 2009-Dec 02 2009.
3. **West University**, Timișoara, Oct 25 2010-Nov 05 2010.
4. **Universidad de Granada**, Spain, 22-30 Nov 2010.

Talks

1. Romanian-German Symposium on Mathematics and its Applications, „*Periodic solutions of nonlinear telegraph equations*”, Sibiu, 14-17 May 2009.
2. The 12th Symposium of Mathematics and its Applications, „*Periodic solutions of nonlinear telegraph equations*”, Timisoara, 5-7 Nov 2009.
3. „*Periodic solutions of nonlinear telegraph equations*”, Université catholique de Louvain, Louvain la Neuve, Belgium, 20 Nov 2009.

4. 10-eme Colloque Franco-Roumain, „*Periodic solutions of pendulum like perturbations of singular and bounded ϕ Laplacians*”, Poitiers, France, 26-31 Aug 2010.
5. „*Periodic solutions of nonlinear telegraph equations*”, Université catholique de Louvain, Louvain la Neuve, Belgium, 20 Nov 2009.
6. The 12th Symposium of Mathematics and its Applications, „*Periodic solutions of nonlinear telegraph equations*”, Timisoara, 5-7 Nov 2009.
7. Romanian-German Symposium on Mathematics and its Applications, „*Periodic solutions of nonlinear telegraph equations*”, Sibiu, 14-17 May 2009.
8. „*Grad topologic, probleme neliniare cu ϕ -Laplacieni si aplicatii in dinamica populatiilor, geometrie si relativitate*”, IMAR, Bucuresti, 8 Apr 2009.