LISTA PUBLICATIILOR
Vicentiu D. Radulescu

Teze de Doctorat si Habilitation

[T1] *Aplicatii ale teoriei operatorilor in analiza neliniara*, teza de doctorat, Universitatea din Craiova, 17 decembrie 1993.

[T2] *Analyse de quelques problèmes liés à l'équation de Ginzburg-Landau*, teza de doctorat, Université Pierre et Marie Curie (Paris VI), 29 iunie 1995.

[T3] *Analyse de quelques problèmes aux limites elliptiques non linéaires*, Habilitation à diriger des recherches, Université Pierre et Marie Curie (Paris VI), 25 februarie 2003.

Carti si capitole in carti

[C1] (cu D. Motreanu) *Variational and Nonvariational Methods in Nonlinear Analysis and Boundary Value Problems*, Nonconvex Optimization and Its Applications, Vol. 67, Kluwer Academic Publishers, Dordrecht, 388 pp., 2003; (http://www.wkap.nl/prod/b/1-4020-1385-X).

[C2] (cu C. Niculescu, Editori), *Mathematical Analysis and Applications: International Conference on Mathematical Analysis and Applications*, Craiova (Romania), 23-24 September 2005, AIP Conference Proceedings Volume 835, American Institute of Physics, 176 pp., 2006; (http://scitation.aip.org/dbt/dbt.jsp?KEY=APCPCS&Volume=835&Issue=1)

[C3] *Treatment Methods of the Elliptic Problems*, Reprografia Universitatii din Craiova, 1998.

[C4] *Partial Differential Equations*, Reprografia Universitatii din Craiova, 1999.

[C5] Singular phenomena in nonlinear elliptic problems. From blow-up boundary solutions to equations with singular nonlinearities, in *Handbook of Differential Equations: Stationary Partial Differential Equations, Vol. 4* (Michel Chipot, Editor), North Holland, 2007, 101 pp., sub tipar.

[C6] *Qualitative Analysis of Nonlinear Elliptic Partial Differential Equations*, Contemporary Mathematics and Applications, Hindawi Publ. Corp., monografie sub tipar.

Articole publicate in reviste de specialitate recunoscute

[R1] Subspaces with the 1 1/2-ball property in Banach spaces, *Ann. Univ. Craiova* XV (1987), 19-25.

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[R8] Vector norms and duality properties in Riesz spaces, *Annals New York Acad.* 728 (1994), 330-338.

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[R22] A Saddle Point type theorem and applications to the study of some problems with strong resonance at infinity, *Ann. Acad. Sci. Fennicae* 21 (1996), 117-131 (cu C. Niculescu).

[R23] Minimization problems and corresponding renormalized energies, *Diff. Integral Equations* 9 (1996), 903-918 (cu C. Lefter).

[R24] Asymptotics for the minimizers of the Ginzburg-Landau energy with vanishing weight, *Advances Math. Sci. Appl.* 7 (1997), 259-271.

[R25] Sur l'équation multigroupe stationnaire de la diffusion des neutrons, *C.R. Acad. Sci. Paris, Ser. I* 323 (1996), 765-768.

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[R33] A perturbation result for a double eigenvalue hemivariational inequality and applications, *J. Global Optimiz.* 14 (1999), 137-156 (cu M. Bocea si P.D. Panagiotopoulos).

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[R35] Perturbations of hemivariational inequalities with constraints, *Revue Roum. Math. Pures Appl.* 44 (1999), 455-461.

[R36] Double eigenvalue hemivariational inequalities with non-locally Lipschitz energy functional, *Commun. Appl. Nonlin. Anal.* 6 (1999), No. 4, 17-29 (cu M. Bocea si P.D. Panagiotopoulos).

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[V6] Singular elliptic problems with convection term in anisotropic media, in *Mathematical Analysis and Applications: International Conference on Mathematical Analysis and Applications*, Craiova (Romania), 23-24 September 2005, AIP Conference Proceedings Vol. 835 (C. Niculescu si V. Radulescu, Editori), American Institute of Physics, 2006, pp. 74-89 (cu M. Ghergu).

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Traduceri

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Note de curs

[NC1] H. Brezis, *Equations de Ginzburg-Landau et singularités*, Note de curs la Université Pierre et Marie Curie (Paris 6) redactate de Vicentiu Radulescu, 2001.

Proiecte de cercetare-dezvoltare-inovare pe baza de contract/grant

In ultimii 5 ani am condus in calitate de director (co-director) urmatoarele granturi de cercetare.

I. Granturi de cercetare internationale

        1. Analiza neliniara si aplicatii in mecanica solidelor, Vicenţiu Rădulescu si Mircea Sofonea (co-directori). Program EGIDE-Brancusi intre Universitatea din Craiova si Universitatea din Perpignan, Franta. Anii: 2003-2004, 6 membri.

        2. Ecuatii cu derivate partiale si aplicatii, Vicenţiu Rădulescu si Olivier Goubet (co-directori). Program EGIDE-Brancusi (PAI 08915PG) intre Universitatea din Craiova si Universitatea Jules Verne din Picardie, Amiens, Franta. Anii: 2005-2007, 6 membri.

II. Granturi de cercetare finantate in Romania

1. **Neliniaritati si singularitati in fizica matematica,** Vicenţiu Rădulescu (director). Grant CNCSIS (CNCSIS 308/2006, tema 2). Anii: 2004-2006, 6 membri.

2. **Analiza unor clase de probleme la limita singulare in medii anizotrope: existenta, unicitatea si comportamentul asymptotic al solutiilor,** Vicenţiu Rădulescu (director). Grant cu Academia Romana (GAR 12/2004). Anii: 2003-2004, 5 membri.

3. **Probleme singulare de tip Lane-Emden-Fowler cu convectie,** Vicenţiu Rădulescu (director). Grant cu Academia Romana (GAR 80/2006). Anii: 2005-2006, 4 membri.

        Am participat ca membru in mai multe contracte/proiecte de cercetare, precum:

(i)   Proiectul P.I.C.S. intre Franta si Romania (1999-2003), directori: H. Brezis si M. Iosifescu

(ii)   Proiectul P.I.C.S. intre Franta si Romania (2005-2009), directori: D. Cioranescu si M. Iosifescu

(iii)   Proiectul European *Smart Systems: New Materials, Adaptive Systems and Their Nonlinearities. Modelling, Control and Numerical Simulation*, director: B. Miara

(iv)   Grantul CNCSIS D4-2001 *Sisteme dinamice si probleme de evolutie* (contract MEN26044/2001 finantat din imprumutul cu Banca Mondiala), director: C. Niculescu

(v)   Grantul CNCSIS 341/2001 *Teoria sistemelor hamiltoniene si aplicatii in fizica particulelor elementare,* director: R. Constantinescu

(vi)   Grantul CEx05-D11-36 *Analiza si controlul sistemelor diferentiale*, director: V. Barbu

(vii)   Grantul 2-CEx06-11-18/2006 *Metode diferentiale deterministe si stocastice in studiul unor modele de evolutie,* director: R. Purice

Alte lucrari si contributii stiintifice

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[Rr2] Sur la théorie de Lyusternik-Schnirelmann en dimension finie, *Matarom*, Laboratoire d'Analyse Numérique, Université de Paris 6, No. 2 (juin 1992), 9-17.

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Probleme propuse in reviste cu larga circulatie internationala

1) Problema No. 11024, *The American Mathematical Monthly*, 6/110 (2003).

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9) *Abrikosov Lattices in Superconductivity*, Problema No. 06-006, *SIAM Problems and Solutions*, 2006.

10) Problema propusa, *Elemente der Mathematik*, sub tipar.

11) Problema propusa, *The American Mathematical Monthly*, sub tipar.

Decembrie 2006