

# Evaluarea anuală pe domeniu

Departamentul de matematică

Anul 2009

## Criteriul 1: Rezultate obținute în activitatea de cercetare științifică

### a) Lista articolelor ISI pe 2009 și punctajul aferent

1. **A. Matei**, A variational approach for an electro-elastic unilateral contact problem, *Mathematical Modelling and Analysis*, **14** (2009), 323-334. ISI IF 2009: **0.602**
2. **Micu, S**; Ortega, JH; Pazoto, AF, [On the controllability of a coupled system of two Korteweg-de Vries equations](#), *Communications in Contemporary Mathematics*, **11** (2009), Issue 5, 799-827. ISI IF 2009: **0.836**
3. **Micu, S**; Ortega, JH; Rosier, L, et al., [Control and stabilization of a family of Boussinesq systems](#), *Discrete and Continuous Dynamical Systems*, **24** (2009), Issue 2, Pages: 273-313. ISI IF 2009: **1.205**
4. **M. Mihailescu** and N. Costea, Nonlinear, degenerate and singular eigenvalue problems on  $\mathbb{R}^N$ , *Nonlinear Analysis: Theory, Methods and Applications* **71** (2009), 1153-1159. ISI IF 2009: **1.487**
5. **M. Mihailescu** and N. Costea, Nonlinear, degenerate and singular eigenvalue problems on  $\mathbb{R}^N$ , *Nonlinear Analysis: Theory, Methods and Applications* **71** (2009), 4271-4278. ISI IF 2009: **1.487**
6. **M. Mihailescu**, A. Kristály and **V. Rădulescu**, Two nontrivial solutions for a non-homogeneous Neumann problem: an Orlicz-Sobolev setting, *Proceedings of the Royal Society of Edinburgh: Section A (Mathematics)* 139A (2009), 367-379. ISI IF 2009: **0.750**.
7. **M. Mihailescu**, G. Morosanu and **V. Rădulescu**, Eigenvalue problems in anisotropic Orlicz-Sobolev spaces, *C. R. Acad. Sci. Paris, Ser. I*, 347 (2009), 521-526. ISI IF 2009: **0.529**
8. **M. Mihailescu**, **V. Rădulescu**, and S. Tersian, Eigenvalue problems for anisotropic discrete boundary value problems, *Journal of Difference Equations and Applications* 15 (2009), 557-567. ISI IF 2009: **0.748**
9. **M. Mihailescu** and **V. Rădulescu**, A continuous spectrum for nonhomogeneous differential operators in Orlicz-Sobolev spaces, *Mathematica Scandinavica* **104** (2009), 132-146. ISI IF 2009: **0.485**
10. **O. Mustafa**, R.P. Agarwal, L. Popescu, On the positive solutions of certain semi-linear elliptic equations, *Bull. Belg. Math. Soc. Simon Stevin* **16** (2009), 49-57. ISI IF 2009: **0.592**
11. **O. Mustafa**, On smooth traveling waves of an integrable two-component Camassa-Holm shallow water system, *Wave Motion* **46** (2009), 397-402. ISI IF 2009: **1.379**
12. **O. Mustafa** and C. Tunc, *Asymptotically linear solutions of differential equations via Lyapunov functions*, *Appl. Math. Comput.* **215** (2009), 3076-3081. ISI IF 2009: **1.124**
13. D. Băleanu and **O. Mustafa**, On the asymptotic integration of a class of sublinear fractional differential equations, *J. Math. Phys.* **50** (2009), 123520. ISI IF 2009: **1.318**
14. **C. P. Niculescu**, *The Hermite-Hadamard inequality for convex functions on a global NPC space*, *J. Math. Anal. Appl.* **356** (2009), no. 1, 295-301. doi:10.1016/j.jmaa.2009.03.007 ISI IF 2009: **1.225**

15. **C. P. Niculescu** and C. Bușe, *An ergodic characterization of uniformly exponentially stable evolution families*, Bull. Soc. Sci. Math. Roum. **52** (100), no. 1, 2009, 33-40.  
ISI IF 2009: **0.554**
16. **C. P. Niculescu** and **Ionel Roventă**, *Fan's inequality in geodesic spaces*, Appl. Math. Letters **22** (2009), 1529-1533.  
ISI IF 2009: **0.978**
17. **C. P. Niculescu** and **Ionel Roventă**, *Schauder Fixed Point Theorem in Spaces with Global Nonpositive Curvature*, Fixed Point Theory and Applications, vol. 2009, Article ID 906727, 8 pages, 2009. doi:10.1155/2009/906727.  
ISI IF 2009: **1.525**
18. **V. Rădulescu** and D. Repovš, *Perturbation effects in nonlinear eigenvalue problems*, *Nonlinear Analysis: Theory, Methods and Applications* **70** (2009), 3030-3038.  
ISI IF 2009: **1.487**
19. **V. Rădulescu** and A. Kristály, *Sublinear eigenvalue problems on compact Riemannian manifolds with applications in Emden-Fowler equations*, *Studia Mathematica* **191** (2009), 237-246.  
ISI IF 2009: **0.645**
20. **V. Rădulescu**, H. Le Dret and R. S. C. Wong, *A Tribute to Professor Philippe G. Ciarlet on His 70th Birthday*, *Comm. Pure Appl. Anal.* **8** (2009), No. 1, pp. 1-4.  
ISI IF 2009: **0.918**
21. **V. Rădulescu**, A. Ghanmi, H. Maagli and N. Zeddini, *Large and bounded solutions for a class of nonlinear Schrödinger stationary systems*, *Analysis and Applications* **7** (2009), 391-404.  
ISI IF 2009: **1.282**
22. **M. Sterpu**, C. Rocsoreanu, L. F. Mello and D. Braga, *Lyapunov coefficients for non-symmetrically coupled identical dynamical systems. Application to coupled advertising models*, *Discrete and Continuous Dynamical Systems - Series B*, Vol. **11** (2009), Issue 3, p. 785-803.  
ISI IF 2009: **0.803**
23. M. Craioveanu and **V. Slesar**, *A Weitzenböck formula for a closed Riemannian manifolds with two orthogonal complementary distributions*", Bull. Math. Soc. Sci. Math. Roumanie, Tome 52 (100) No 3, 2009, 271-279.  
ISI IF 2009: **0.554**
24. **V. Slesar**, *Weitzenböck formulas for Riemannian foliations*", *Diff. Geom. Appl.*, 27 (2009), 362-367.  
ISI IF 2009: **0.669**
25. **C. Vladimirescu**, *Remark on Krasnoselskii' s fixed point theorem*, *Nonlinear Analysis: Theory, Methods and Applications* **71** (2009), 876-880.  
ISI IF 2009: **1.487**

#### **Rezultate statistice:**

Nr. membri departament (în 2009): **21**

Nr. membri care au publicat: **10**

Total puncte ISI 2009: **24. 669** (reprezentând suma articolelor)

(Factori ISI: de la 0.485 la 1,525)

#### **b) Lista cărților publicate în 2009**

(din România se are în vedere doar Editura Academiei)

1. M. Sofonea and **A. Matei**, *Variational Inequalities with Applications. A Study of Antiplane Frictional Contact Problems*. Advances in Mechanics and Mathematics, Vol.18, Springer-Verlag, 2009.
2. T. Radulescu, **V. Radulescu**, T. Andreescu, *Problems in Real Analysis: Advanced Calculus on the Real Axis*, Springer, New York, 2009.

#### **c) Brevete ---**

## **Criteriul II: Mediul de cercetare științifică**

### **a) Conducători de doctorat**

Nr. conducătorilor de doctorat in domeniul matematicii: 3. Lista lor:

Bușneag Dumitru  
Niculescu Constantin  
Rădulescu Vicențiu.

Nr. de teze susținute în 2009 (și confirmate de CNATCDU): 3 teze, susținute de

Dinu Constantin Cristian  
Boueanu Magda  
Jeflea Maria Antoaneta.

### **b) Capacitatea universității de a asigura accesul la literatura de specialitate:**

Acces la Science Direct în 2009.

### **c) Capacitatea universității de a susține programe postdoctorale:**

Nu (pentru matematică)

### **d) Program de investiții pentru laboratoare/ateliere dotate cu infrastructură specifică cercetării științifice:**

Nu în 2009.

## **Criteriul III: Recunoașterea în comunitatea academică**

Câteva invitații pentru vizite de lucru (colaborare științifică)

Participare la conferințe științifice internaționale. Conferințe în plen:

V. Rădulescu: Romania-Germany Workshop Nonlinear Analysis and Mathematical Physics, University Lucian Blaga of Sibiu, May 14-16, 2009.

V. Rădulescu: Premier Séminaire Roumain-Tunisien en Mathématiques (The 4-th Workshop Series on Mathematics), Institute of Mathematics Simion Stoilow of the Romanian Academy, Bucharest, November 18-19, 2009.

## **Criteriul IV: Resurse financiare atrase pentru cercetare**

### **Lista granturilor de cercetare pe 2009**

#### **1. Probleme de analiza convexa, analiza numerica si control in studiul sistemelor fizice complexe, Contract: PN2\_Idei cod 420/2008**

Valoare: 95.498,31 lei

**Director:** Constantin P. Niculescu

**Echipa:** Sorin Micu, Matei Andaluzia, Mitroi Corina și Ionel Roventă

#### **2. Procese neliniare degenerate si singulare, Contract: PN2\_Idei cod 79/2007**

Valoare: 204.569 lei

**Director:** Vicențiu Rădulescu

**Echipa:** Mihailescu Mihai, Constantinescu Nicolae, Varga Csaba, Boueanu Maria, Micu Cristina

3. **Probleme de controlabilitate a ecuatiilor cu derivate partiale**, Program „Capacități”, Modul III din PN II - Colaborari bilaterale Romania-Franta, Numar contract finantare: 206/13-04-2009  
Valoare: 7096,41 lei  
**Director:** Sorin Micu  
**Echipa:** Constantin P. Niculescu, Ionel Roventza