

LISTA DE LUCRĂRI

CRISTIAN-MIHAI CAZACU

Teza de doctorat

C. Cazacu, *Hardy inequalities, Control and Numerics for singular PDEs*, Universidad Autónoma de Madrid, Madrid, Spania.

Data susținerii: 21 septembrie 2012.

Conducător de doctorat: Enrique Zuazua.

I. Articole publicate/acceptate spre publicare în jurnale ISI

- (1). C. Cazacu, L. Ignat, A. Pazoto, *Null-controllability of the Kuramoto-Sivashinsky equation on star-shaped trees*, **SIAM J. Control Optim.**, acceptat la publicare, preprint disponibil online la arXiv:1611.04111.
- (2). C. Cazacu, L. Ignat, A. Pazoto, *On the asymptotic behavior of a subcritical convection-diffusion equation with nonlocal diffusion*, **Nonlinearity** 30 (2017), no. 8, 3126–3150.
- (3). C. Cazacu, D. Krejčířík, *The Hardy inequality and the heat equation with magnetic field in any dimension*, **Comm. Partial Differential Equations** 41 (2016), no. 7, 1056–1088.
- (4). C. Cazacu, *New estimates for the Hardy constants of multipolar Schrödinger operators*, **Commun. Contemp. Math.** 18 (2016), no. 5, 1550093, 28 pp.
- (5). C. Cazacu, *Controllability of the heat equation with an inverse-square potential localized on the boundary*, **SIAM J. Control Optim.** 52 (2014), no. 4, 2055–2089.
- (6). C. Cazacu, *Schrödinger operators with boundary singularities: Hardy inequality, Pohozaev identity and controllability results*, **J. Funct. Anal.** 263 (2012), no. 12, 3741–3783.
- (7). C. Cazacu, *On Hardy inequalities with boundary singularities*, **C. R. Acad. Sci. Paris, Ser. I** 349 (2011), no. 5-6, 273–277.
- (8). C. Cazacu, *Hardy inequality and Pohozaev identity for operators with boundary singularities: some applications*, **C. R. Acad. Sci. Paris, Ser. I** 349 (2011), no. 21-22, 1167–1172.

Conform indicatorilor scientometrici din ediția JCR publicată în iunie 2018, primele 6 articole de mai sus se găsesc **în zona roșie** în cadrul domeniilor Matematica sau Applied Matematica stabilită de UEFISCDI atât în lista ordonată după scorul de influență (AIS) cât și în cea ordonată după factorul de impact (IF).

II. Articole publicate în volume

- (9). C. Cazacu, E. Zuazua, *Improved multipolar Hardy inequalities*, Studies in phase space analysis with applications to PDEs, 35–52, Progr. Nonlinear Differential Equations Appl., 84, **Birkhäuser/Springer**, New York, 2013, ISBN 978-1-4614-6347-4.

III. Articol nepublicat

- (10). C. Cazacu, *Hardy inequality with boundary singularities*, arXiv:1009.0931.

IV. Postere la conferințe internaționale

- (11). 01/07/2013-05/07/2013 - C. Cazacu, *Controllability of the heat equation with a Hardy potential arising at the boundary*, “8th Workshop on Control of Distributed Parameter Systems”, Craiova, România.
- (12). 04/07/2011-08/07/2011 - C. Cazacu, *Hardy inequality and Pohozaev identity for operators with boundary singularities: applications to controllability*, OPTPDE - Summer School - Challenges in Applied Control and Optimal Design, Bilbao, Spania.