

NICUȘOR COSTEA

Personal Information

- *Date of birth:* 26.06.1984
- *Place of birth:* Corabia, jud. Olt, Romania
- *Citizenship:* Romanian
- *Correspondence address:* Department of Mathematics, 13 A. I. Cuza, 200585 Craiova, Romania
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Education

- *October 2007 - September 2010* Ph. D. at University of Craiova
Domain: Mathematics
Thesis title: *Unilateral problems in mathematical physics*
Adviser: Prof. Vicențiu Rădulescu
- *October 2007 - June 2009* Master in Mathematics at University of Craiova
Domain: *Dynamic systems and evolution problems*
Dissertation thesis: *Hemivariational inequalities and eigenvalue problems*
Adviser: Prof. Vicențiu Rădulescu
- *October 2003 - June 2007* Faculty of Mathematics and Computer Sciences at University of Craiova
Domain: Mathematics and Computer Sciences
Graduation thesis: *Maximum principles for partial differential equations*
Adviser: Prof. Vicențiu Rădulescu

Fields of Interest

- Hemivariational inequalities
- Contact mechanics, calculus of variations, nonlinear analysis

Foreign Languages

- English - advanced
- French - beginner

Training Courses

- Psycho-pedagogical training (The Department of Teacher Training, University of Craiova).

Conferences

- N. Costea, Spectral problems for some nonlinear perturbations of the Laplace operator, *The Fifth Conference on Nonlinear Analysis and Applied Mathematics*, Târgoviște, 7th-8th December 2007.

Publications

- N. Costea, Continuous family of eigenvalues concentrating in a small neighborhood at the right of the origin for a class of discrete boundary value problems, *Annals of the University of Craiova, Math. Comp. Sci. Ser.* **35** (2008), 85-93.
- N. Costea & V. Rădulescu, Existence results for hemivariational inequalities involving relaxed $\eta - \alpha$ monotone mappings, *Communications in Applied Analysis* **13** (3) (2009), 293-304.
- N. Costea & M. Mihăilescu, Nonlinear, degenerate and singular eigenvalue problems on \mathbb{R}^N , *Nonlinear Analysis: Theory, Methods and Applications* (2009 ISI Impact Factor: 1,487, rank 18/251 Mathematics) **71** (2009), 1153-1159.
- N. Costea & M. Mihăilescu, On an eigenvalue problem involving variable exponent growth conditions, *Nonlinear Analysis: Theory, Methods and Applications* (2009 ISI Impact Factor: 1,487, rank 18/251 Mathematics) **71** (2009), 4271-4278.
- I. Andrei & N. Costea, Nonlinear hemivariational inequalities and applications to nonsmooth mechanics, *Advances in Nonlinear Variational Inequalities* **13** (1) (2010), 1-17.
- N. Costea & A. Matei, Weak solutions for nonlinear antiplane problems leading to hemivariational inequalities, *Nonlinear Analysis: Theory, Methods and Applications* (2009 ISI Impact Factor: 1,487, rank 18/251 Mathematics) **72** (2010), 3669-3680.
- N. Costea & V. Rădulescu, Hartman-Stampacchia results for stably pseudomonotone operators and nonlinear hemivariational inequalities, *Applicable Analysis* (2009 ISI Impact Factor: 0,613, rank 147/201 Applied Mathematics) **89** (2) (2010), 175-188.
- N. Costea & C. Lupu, On a class of variational-hemivariational inequalities involving set valued mappings, *Advances in Pure and Applied Mathematics* **1** (2) (2010), 233-246.
- N. Costea, Existence and uniqueness results for a class of quasi-hemivariational inequalities, *Journal of Mathematical Analysis and applications* (2009 ISI Impact Factor: 1,225, rank 30/251 Mathematics) **373** (2011), 305-315.

- I. Andrei, N. Costea & A. Matei, Antiplane shear deformation of piezoelectric bodies in contact with a conductive support, submitted.
- N. Costea & A. Matei, Contact models leading to variational-hemivariational inequalities, submitted.