

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

Conf. dr. Aurelian Nicola

A. Teza de doctorat

Soluții numerice ale Ecuatiilor Hamilton-Jacobi folosind Rețele Adaptive – Universitatea din Strathclyde, Marea Britanie, 2005.

B. Cărți si capitole în cărți publicate în ultimii 10 ani

1. Popovici D. M. (coordonator), Bogdan C. M., Rusu A., Chelai O., Nicola A., „Dezvoltarea aplicatiilor software” capitol in volumul „Medii virtuale multimodale distribuite”, Editura Universitaria Craiova și Editura Prouniversitaria Bucuresti, 978-606-26-0049-5, 2014, vol 1, 354 pag.
2. Popovici D. M. (coordonator), Zaharescu E., Rusu A., Puchianu C. M., Sburlan D., „Web semantic și ontologii” capitol în volumul „Medii virtuale multimodale distribuite”, Editura Universitaria Craiova și Editura Prouniversitaria Bucuresti, 978-606-26-0280-2, 2015, vol 3, 266 pag.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

a) Articole ISI

1. Juncu Gh., Nicola A., Popa C., Stroila E. - Preconditioned conjugate gradient and multi-grid methods for numerical solution of multi-component mass transfer equations: I. Diffusion-reaction-equations, Numer. Heat Transfer A 66 (11) (2014), 1268 – 1296 ; IF - 1.847
2. Juncu Gh., Nicola A., Popa C., Stroila E. - Preconditioned conjugate gradient and multi-grid methods for numerical solution of multi-component mass transfer equations: II. Convection-diffusion-reaction equations, Numer. Heat Transfer A 66 (11) (2014), 1297 – 1319; IF - 1.84
3. A. Nicola, S. Petra, C. Popa, C. Schnorr, On a general extending and constraining procedure for linear iterative methods, Intern. Journal of Computer Mathematics, Volume 89, Issue 2, (2012). ISSN 0020-7160; IF - 0.542;
4. Nicola A., Popa C., Rude U. - On a regularization technique for Kovarik-like approximate orthogonalization algorithms, Carpathian Journal of Mathematics, 27(1) (2011), 114-122. ISSN 1584-2851; IF - 0.906
5. Juncu Gh., Nicola A., Popa C., Nonlinear multigrid methods for numerical solution of the unsaturated flow equation in two space dimensions, Transport in Porous Media, 83 (2010), 637-652; cited in C29, C30. ISSN 0169-3913; IF - 1.168;
6. Gh. Juncu, A. Nicola, C. Popa, T. Udrescu, Nonlinear multigrid methods for solving Richards equation in two space dimensions, Carpathian Journal of Mathematics, Vol 25, Nr 1, p. 82-91, 2009.

7. A. Nicola, C. Popa, Sparse Matrix Techniques in Scientific Computing, Studies in Informatics and Control, Vol. 18, No.1, p. 33-39, 2010.
8. Juncu Gh., Nicola A., Popa C. " Nonlinear multigrid methods for Numerical solutions of the Variably Saturated Flow Equation in Two Space Dimensions, Transport in Porous Media, Vol 91, Issue 1, pp 35-47, 2012. Relative Influence Score (RIS) - 1.60
9. Gh. Juncu, A. Nicola, C. Popa, „Splitting methods for the numerical solution of multi-component mass transfer problems”, Mathematics and Computers in Simulation, Vol 152, Pag. 1-14, 1.10.2018.
10. Gheorghe Juncu, Aurelian Nicola, Elena Stroilă Curcă, „The Variation of the Salt Concentration at the Discharge of a River into a Saline Water”, Analele Universitatii" Ovidius" Constanta-Seria Matematica, Vol. 28, Numarul 2, 137-147, 2020.
11. G. Juncu, A. Nicola, E. Stroila, Numerical solution of the parabolic multicomponent convection–diffusion mass transfer equations by a splitting method, Numerical Heat Transfer, Part A: Applications 71 (1), 72-90.
12. W. G. Boskoff, A. Nicola, A Special Universe and its Massless Scalar Field Mathematical Structure, Analele Stiintifice ale Universitatii Ovidius Constanta: Seria Matematica 33 (1).

Data:

Semnătura: