


List of publications

Georgi Boyadzhiev, Ph.D.

1. G. Boyadzhiev, Local solvability of a class of linear partial differential equations, Rendiconti del Seminario della Facolta di Scienze MM.FF.NN. dell'Universita di Cagliari, vol.71, (2001).
2. G. Boyadzhiev, N.Kutev, Diffraction problems for quasilinear elliptic and parabolic systems, Proceedings of the IV Conference on elliptic and parabolic problems, (2002).
3. G. Boyadzhiev, N.Kutev, Comparison principle for quasilinear elliptic and parabolic systems, C.R. Acad.Bulg.Sci., vol. 55/1, (2002). ISSN 1310–1331 (Print) ISSN 2367–5535 (Online). IF: 0.198 (2013) 
4. G. Boyadzhiev, N.Kutev, Diffraction problems for quasilinear elliptic and parabolic systems, Nonlinear Analysis, Volume 55, Issue 7-8 (2003)., Pages 905-926. ISSN: 0362-546X. IF 1.612 (2013)
5. G. Boyadzhiev, Comparison principle for linear non - cooperative elliptic systems, C.R. Acad.Bulg.Sci, vol. 59/3 (2006). ISSN 1310–1331 (Print) ISSN 2367–5535 (Online) IF: 0.198 (2013)
6. Boyadzhiev, G. Comparison principle for non-cooperative elliptic systems, Nonlinear Analysis, Theory, Methods and Applications, 69 (11), (2008), pp. 3838-3848. ISSN: 0362-546X. IF 1.612 (2013)
7. G.Boyadzhiev, E.Brandmayer, T.Pinat, G.F.Panza, Optimization for non – linear inverse problems, Rendiconti Lecei SCIENZE FISICHE E NATURALI, vol. 19, pp 17-43, (2008). ISSN: 2037-4631 (Print) 1720-0776 (Online) IF 0.757 (2013)
8. Boyadzhiev, G. Application of a simple CNN model in inversion problem in Geophysics, Intern. J.of Neural Networks and Applications, vol. 1(2), (2008), pp.55-58.
9. Boyadzhiev, G. Comparison Principle for linear non-cooperative elliptic systems, Proceedings of the conference “Pioneers of Bulgarian Mathematics”, Annuaire de L’Universite de Sofia “St. Kliment Ohridski”, vol 99 (2009), pp111-120.
10. Boyadzhiev, G. Existence theorem for cooperative quasi-linear elliptic systems, C.R. Acad. Bulg. Sci., 63(5), (2010), pp.665-672. ISSN 1310–1331 (Print) ISSN 2367–5535 (Online) IF: 0.198 (2013)

11. Boyadzhiev, G. Existence theorems for non - cooperative elliptic systems, *Pliska Studia Mathematica Bulgarica*, vol 21, ISSN 0204-9805, (2012), pp.315-320.
12. .Boyadzhiev, G. Bicharacteristic Curves in Modeling of the Earth Crust and Upper Mantle, *Journal of Mathematics and System Science*, vol. 4 (ISSN 2159-5291, USA), pp.167-172
13. Boyadzhiev, G. Bicharacteristic Curves in 3D Modelling of the Lithosphere, *Mathematics in Industry*, Cambridge Scholars Publishing, ISBN (10): 1-4438-6401-3 (2014) pp.53-63.
14. Boyadzhiev, G. 3D modelling of wave propagation in solid media and applications in geophysics, *Pliska Studia Mathematica Bulgarica*, ISSN 0204-9805, (2014),
15. Boyadzhiev, G. Existence of Classical Solutions of Linear Non-cooperative Elliptic Systems, *C.R. Acad. Bulg. Sci.*, 68 (2), (2015) ISSN 1310–1331 (Print) ISSN 2367–5535 (Online), pp 159 – 164.
16. P.Popivanov,G. Boyadzhiev, Y. Markov. Existence of classical solutions of quasi-linear non - cooperative elliptic systems, *Pliska Studia Mathematica Bulgarica*, 25 (2015), pp. 101-110. ISSN 0204-9805
17. Boyadzhiev, G. Bi-characteristic curves of body and surface waves and application in geophysics, *Serdica Mathematical Journal* vol 41:4 (2015), pp.513 – 526.