

Selected publications

A.I. Mitrea, **On the unbounded divergence in the best approximation on equidistant nodes**, Applied Mathematics Letters, vol. 26(1), 61–64(2013), ISSN 0893-9659, doi: 10.1016/j.aml.2012.03.033

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A.I.Mitrea, **Double condensation of singularities for product-quadrature formulas with differentiable functions**, Carpathian Journal of Mathematics, vol. 28(1), 83 – 91(2012), ISSN 1584 – 2851(print), ISSN 1843 – 4401(online)

A. I. Mitrea, R. Badea, D. Mitrea , S.Nedevschi, P. Mitrea, D. M. Ivan, O. M. Gurzau, **Iterative methods for obtaining energy-minimizing parametric snakes, with application to medical imaging**, Computational and Mathematical Methods in Medicine, vol. 2012 (2012), Article ID 918510, 11 pages, ISSN: 1748-670X (print), ISSN: 1748-6718 (online), doi:10.1155/2012/918510

P. Mitrea, .O.M.Gurzau, A.I.Mitrea, **On the approximation error of some numerical methods for obtaining the optimal deformable model**, International Series of Numerical Math., Birkhauser-Verlag - Basel Publ. (Springer), 2012(accepted paper)

A.I.Mitrea, P.Mitrea, M.Gurzau, **On the Stability and Convergence Rate of Some Discretized Schemes for Parametric Deformable Models Used in Medical Image Analysis** , IFMBE Proc.(Springer), vol. 36, part 3, pp. 212-219(2011); doi: 10.1007/978-3-642-22586-4_46, ISBN 978-3-642-22585-7

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A. I. Mitrea, **On the convergence of a class of numerical differentiation formulas**, Automation, Computers and Applied Mathematics, vol.19 (2), 325-332(2010), ISSN 1221-437X

A.I.Mitrea, P.Mitrea, **On the unbounded divergence of some projection operators in the discrete best approximation**, General Mathematics, vol.18(1), 81-88(2010), ISSN 1221-5023

A.I. Mitrea, D. Mitrea, **Two sided estimates for projection operators with applications to deformable models**, Math Ineq.& Appl., vol.12(4), 845-853(2009), ISSN 1331-4343, dx.doi.org/10.7153/mia-12-68

A.I. Mitrea, **On the divergence of some Product Quadrature Formulas**, Studia Univ. Babes-Bolyai, vol.54 (3), 127-136(2009), ISSN 2065-961X

A. I. Mitrea , **Superdense unbounded divergence of numerical differentiation on Sturm-Liouville node matrix**, Pure Mathematics and Applications (PuMA), vol.17(3), 359-365(2008), ISSN : 1218-4586

A.I. Mitrea, P. Mitrea , **Inequalities involving the Superdense Unbounded Divergence of some Approximation Processes**, International Series of Numerical Math., Birkhauser-Verlag -Basel Publ. (Springer), vol.157, 193-200 (2008), ISBN 978-3-7643-8772-3