Mathematical Physics

Expression of Generalized Newton Iteration Method via Generalized Local Fractional Taylor Series

Yang Xiao-Jun

(Submitted on 14 Jun 2011 (v1), last revised 21 Jun 2012 (this version, v2))

Local fractional derivative and integrals are revealed as one of useful tools to deal with everywhere continuous but nowhere differentiable functions in fractal areas ranging from fundamental science to engineering. In this paper, a generalized Newton iteration method derived from the generalized local fractional Taylor series with the local fractional derivatives is reviewed. Operators on real line numbers on a fractal space are induced from Cantor set to fractional set. Existence for a generalized fixed point on generalized metric spaces may take place.

Comments:	Yang, X.J.Expression of generalized Newton iteration method via generalized local fractional Taylor series, Advances in Computer Science and its Applications, 1(2) (2012) 89-92
Subjects:	**Mathematical Physics (math-ph)**
MSC classes:	65F08, 28A80, 26A18, 26A99
Journal reference:	Advances in Computer Science and its Applications 1 (2) (2012), 89-92
Cite as:	**arXiv:1106.2780 [math-ph]**
	(or **arXiv:1106.2780v2 [math-ph]** for this version)

Submission history

From: Xiao-Jun Yang [view email]
[v1] Tue, 14 Jun 2011 18:23:10 GMT (53kb)
[v2] Thu, 21 Jun 2012 22:20:56 GMT (56kb)

Which authors of this paper are endorsers?