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majorant condition

Orizon Perreira Ferreira, Max Leandro Nobre Gonçalves, Paulo Roberto Oliveira

**Convergence of the Gauss-Newton method** 

for convex composite optimization under a

(Submitted on 19 Jul 2011)

Under the hypothesis that an initial point is a quasi-regular point, we use a majorant condition to present a new semi-local convergence analysis of an extension of the Gauss-Newton method for solving convex composite optimization problems. In this analysis the conditions and proof of convergence are simplified by using a simple majorant condition to define regions where a Gauss-Newton sequence is "well behaved".

Subjects: **Optimization and Control (math.OC)** MSC classes: 65H10 arXiv:1107.3796v1 [math.OC] Cite as:

## Submission history

From: Max Leandro Nobre Goncalves [view email] [v1] Tue, 19 Jul 2011 17:56:43 GMT (18kb)

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