

Newton's method in Riemannian manifolds

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In this talk, we will discuss one kind of Newton-type algorithm for solving inclusions involving set-valued maps defined on Riemannian manifolds. We provide some sufficient conditions ensuring the existence as well as the quadratic convergence of Newton sequence. The material studied in this work is based on Riemannian geometry as well as variational analysis, where metric regularity property is a key point.

Références

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