

Differential Variational Inequalities related to best approximation
algorithms solving coupled maximally monotone operators inclusion
problem

Krzysztof Rutkowski

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Abstract

In this talk we will investigate the relations between Differential Variational Inequalities (DVI) with best approximation algorithm (BAA) given by Combettes in [1]. We will show some new properties of BAA. Next we will investigate a special variant of DVI to show that under special discretization of the dynamics we can obtain BAA.

[1] Alotaibi, A., Combettes, P.L., Shahzad, N.: Best approximation from the Kuhn–Tucker set of composite monotone inclusions. Numer. Funct. Anal. Optim. arXiv:1401.8005