

On the jump set of minimizers of scalar and vectorial Total-Variation based regularization problems

Thursday, 6 July 2023 09:00 (50 minutes)

It has been shown a long time ago that the discontinuity set of the solution of a denoising problem by total variation minimization ("Rudin-Osher-Fatemi") is a subset of the discontinuity set of the original data, if smooth enough. In this talk, I will review the techniques used in the scalar setting, a variant developed by T. Valkonen which in theory addresses more cases (including vectorial), and a much simpler approach, developed in collaboration with M. Łasica (Warsaw) and inspired by T. Valkonen's techniques, yet which extends his results to even more cases.

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