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Convex regularization of multi-channel images based on variants of the TV-model. (English)

Zbl 1391.49020

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Summary: We discuss existence and regularity results for multi-channel images in the setting of isotropic and anisotropic variants of the TV-model.

MSC:

49J45 Methods involving semicontinuity and convergence; relaxation

49Q20 Variational problems in a geometric measure-theoretic setting

49N60 Regularity of solutions in optimal control

Keywords:

variational problems of linear growth; TV-regularization; matrix-valued problems

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