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Nota di contenuto	A Guide to the TV Zoo -- EM-TV methods for inverse problems with Poisson noise -- Variational Methods in Image Matching and Motion Extraction -- Metrics of Curves in Shape Optimization and Analysis.
Sommario/riassunto	This book takes readers on a tour through modern methods in image analysis and reconstruction based on level set and PDE techniques, the major focus being on morphological and geometric structures in images. The aspects covered include edge-sharpening image reconstruction and denoising, segmentation and shape analysis in images, and image matching. For each, the lecture notes provide insights into the basic analysis of modern variational and PDE-based techniques, as well as computational aspects and applications.