The optimizability-Fidelity Trade-off in Image Analysis
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2011

Abstract: Image analysis problems (e.g. segmentation and registration) are typically formulated in an optimization framework (energy-minimization). In this work, I present two important recurring questions: What to optimize and how to optimize and expose the resulting tradeoffs between the fidelity (of the domain and range) of the objective function and its optimizability.

All slides as a video are available from: http://summit.sfu.ca/item/10897

Direct link to the video:
http://summit.sfu.ca/system/files/iritems1/10897/hamarneh-optimizability-fidelity-space-tradeoff.mov