Co-saliency Detection for RGBD Images
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- A multi-constraint feature matching method is introduced to constrain the inter-saliency map generation.
- The Cross Label Propagation (CLP) method is proposed to optimize the co-saliency model in a cross manner.
- We construct a new RGBD co-saliency dataset, named RGBD Cosal150 dataset, for performance evaluation.


Motivation:
- Use the existing single saliency maps as initialization, and generate the RGBD co-saliency map via a refinement-cycle model.
- The proposed method can effectively exploit any existing 2-D saliency model to work well in RGBD co-saliency scenarios.


- The global sparsity reconstruction model captures the global characteristic among the whole image group through a common foreground dictionary.
- The pairwise sparsity reconstruction model utilizes a set of foreground dictionaries produced by other images to explore local inter-image information.
- The energy function refinement model is designed to improve the intra-image smoothness and inter-image consistency, including the unary data term, spatial smooth term, and holistic consistency term.