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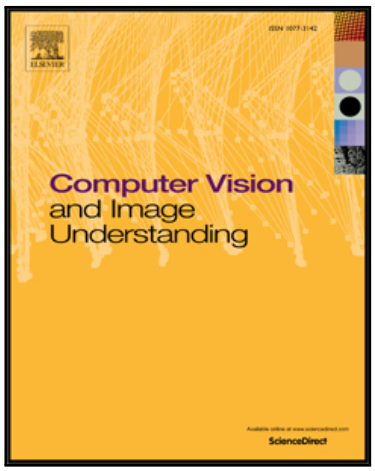

Simultaneous Tumor Segmentation, Image Restoration, and Blur Kernel Estimation in PET Using Multiple Regularizations

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HIGHLIGHTS

- A simultaneous restoration and segmentation variational method is proposed for PET.
- Multiple regularizations are employed to fit multiple image components in PET.
- Metabolic uptake values on tumor edges in PET are regularized.
- The blur kernel is modeled as an anisotropic Gaussian.
- The proposed method can handle PVE and is independent to imaging systems.

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