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Exploiting Superpixel and Hybrid Hash for Kernel-Based Visual Tracking

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Highlights

- Superpixel analysis approach is employed to reconstruct target appearance in visual tracking.
- Representative superpixel blocks combined with kernel-based filter are exploited for roughly target location.
- Superpixel block modification method based on hybrid hash is proposed to accurately locate target.
- Conventional kernel-based filter is improved with peak-response scale estimation and color features.
- Comprehensive experiments on publicly available datasets demonstrate our tracker superior to state-of-the-art trackers.

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