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Joint localization and target tracking with a monocular camera

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Research Highlights

- 1. Joint localization fuses target dynamics and pursuit robot kinematics to improve trajectories estimation.
- $2. \ \ An adaptive \ histogram \ similarity \ threshold \ correctly \ suspend \ tracking \ and \ localization \ when \ target \ is \ occluded.$
- 3. A fast target redetection method avoids false detections and improves accuracy.
- 4. Redetection successfully reinitialize visual tracking and state estimation correction.

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