# **Online Graph-Based Tracking**

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# Problem

Motivation: Visual tracking relying on a chain model is not reliable in challenging situations.

• Objective: Online tracking which adaptively constructs a graph structure based on the target characteristic.

Our approach: Track the current frame using multiple previous frames selected by representability and weighted by tracking suitability.





# Main Framework

- from representative frames through a patch matching.
- by a weighted Bayesian model averaging , where the weights are computed by tracking plausibility.

tracking result and update the representative frame set if necessary.



### Experiments



20 30 Location error threshold





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Shot change (psy sequence)