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Real-time nonparametric background subtraction with tracking-based foreground update

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Highlights

- Combined foreground-background spatio-temporal nonparametric models with tracking-based update of reference data.
- Bayesian classifier for combining foreground and background models with different spatial bandwidths.
- Selective analysis strategy based on random sampling and regions of interest.
- Efficient automatic appearance bandwidth selection switching.
- Real-time, GPU-based implementation of the proposed strategy.

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