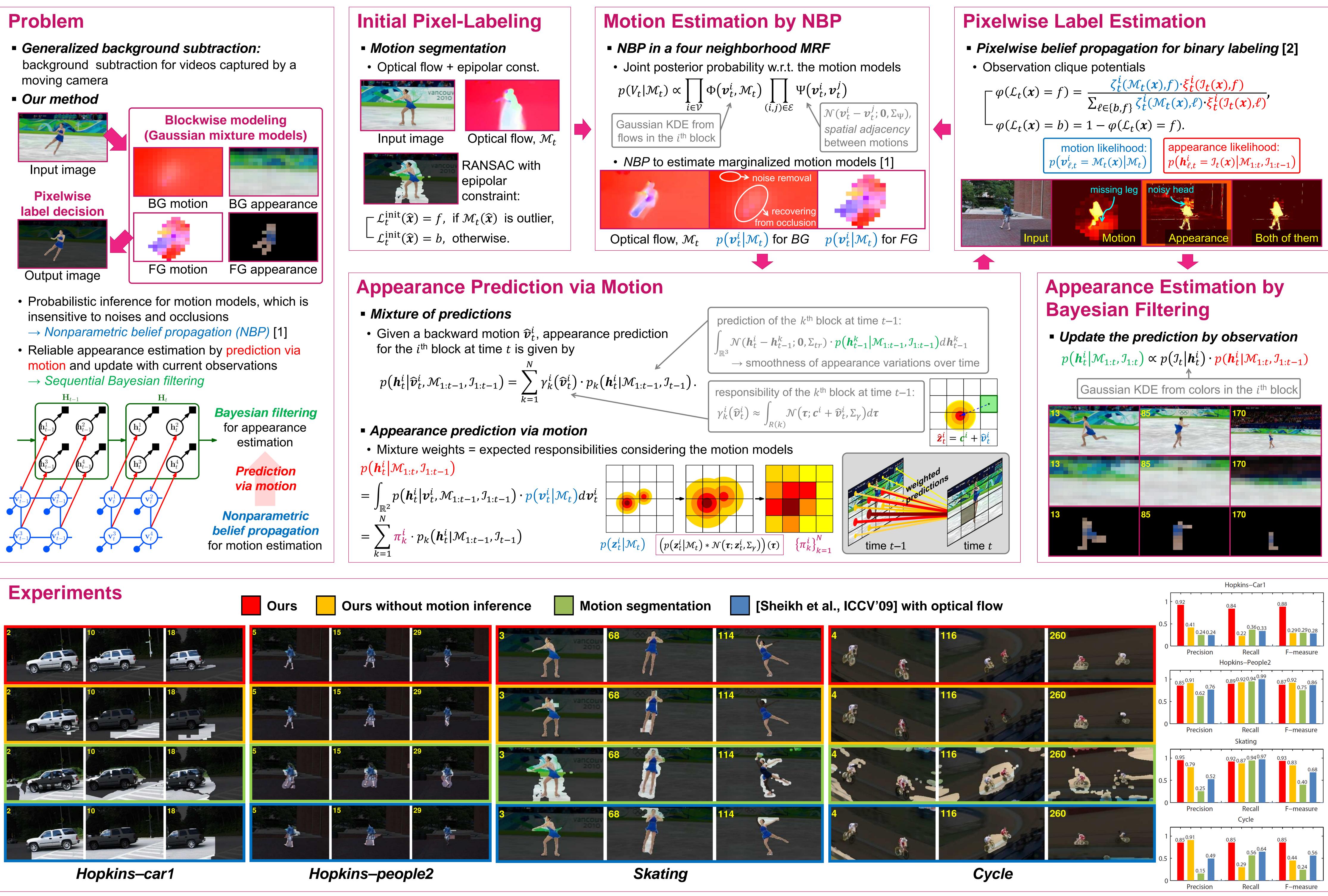
# **Generalized Background Subtraction Based on Hybrid Inference** by Belief Propagation and Bayesian Filtering

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Joon Hee Han

$$p(\boldsymbol{h}_{t}^{i}|\boldsymbol{\hat{v}}_{t}^{i}, \mathcal{M}_{1:t-1}, \mathcal{I}_{1:t-1}) = \sum_{k=1}^{N} \gamma_{k}^{i}(\boldsymbol{\hat{v}}_{t}^{i}) \cdot p_{k}(\boldsymbol{h}_{t}^{i}|\mathcal{M}_{1:t-1}, \mathcal{I}_{t-1}).$$



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ICCV 201