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A novel learning-based frame pooling method for Event Detection

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Highlights

- A novel learning-based frame pooling method for event detection is proposed.
- An effective interpolation operation is proposed to handle the problem of different lengths of different video clip samples.
- The pooling weight learning is formulated as an optimization problem and thus the best pooling weight configuration for each specific event category can be automatically learned.
- Extensive experimental results reveal that our method has significant improvements than traditional pooling strategies with various features and their combinations on a challenging dataset.

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