

# Related Work

## Generic Video Summarization

- **Unsupervised:** take advantage of specific selection criteria to measure the importance or interestingness of video frames and then generate video summaries.
  - hand-crafted heuristics (2014), frame clustering (2016), GAN (2017)...
- **Supervised:** training data used in these methods contains raw videos and human-created ground-truth annotations. Combined with a large number of human annotations, models can capture the video content with more semantic information
  - Web image (2014), dppLSTM (2016), bi-LSTM (2016), RNN+LSTM (2018)...
- **Weakly supervised approaches:** readily available label, such as video categories, as additional information to improve model performance
  - 3D ConvNet (2017)

# Related Work

## Query-Focused Video Summarization

- These approaches are sequential models, using DPP-based algorithm or LSTM structure:
  - DPP-based algorithm (2016)
  - Memory network based model (2017)
  - Quality-aware relevance model (2017)
  - GAN (2018)