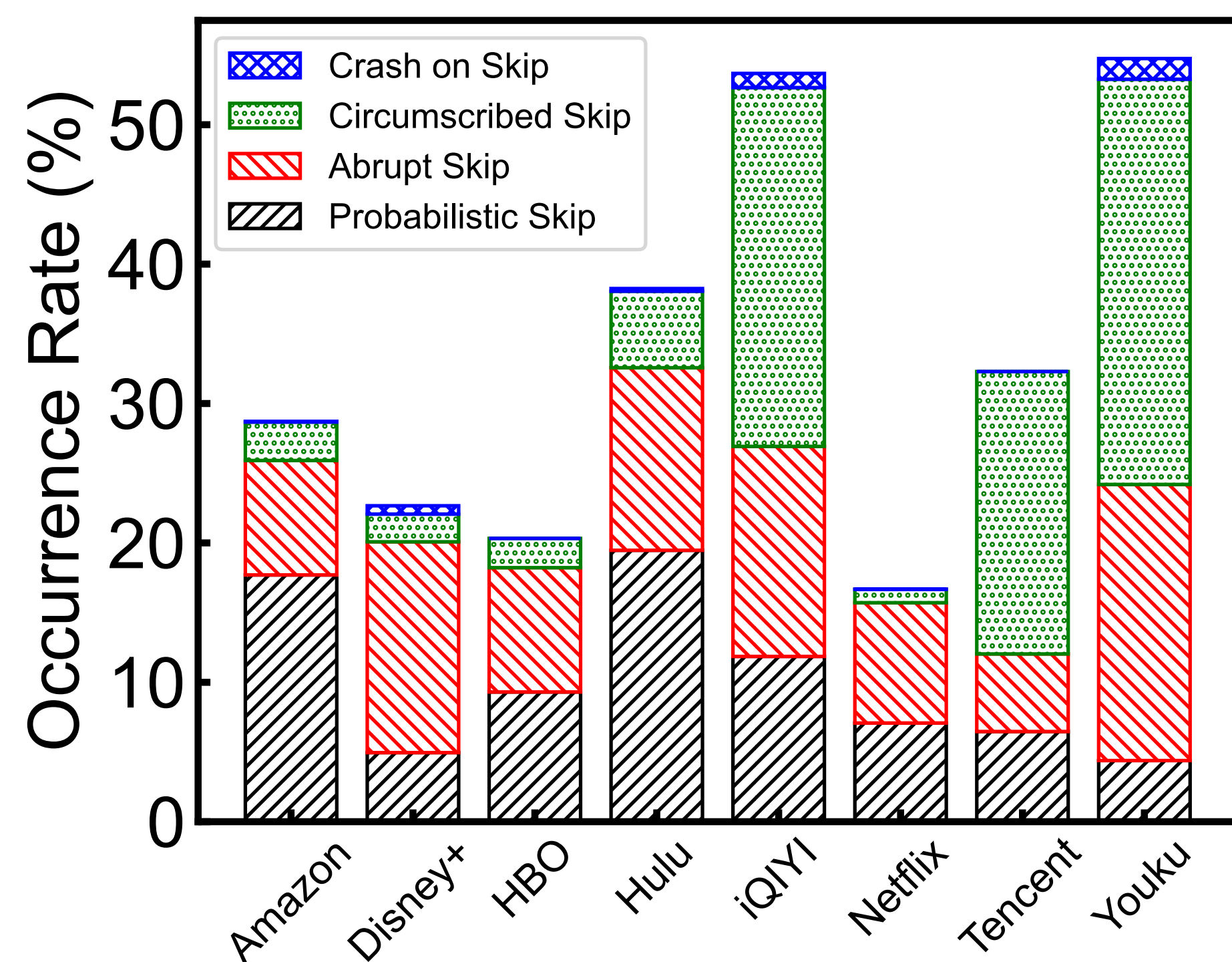


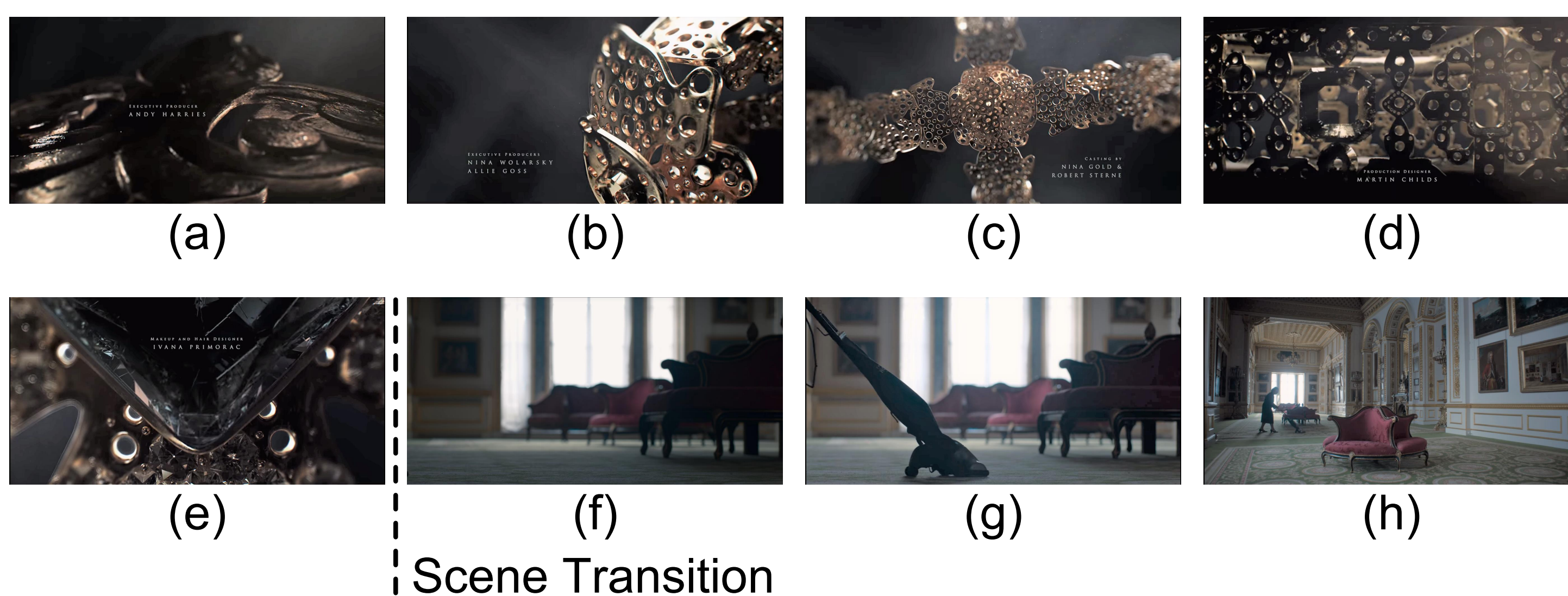
# SkipStreaming: Pinpointing User-Perceived Redundancy in Correlated Web Video Streaming through the Lens of Scenes

Wei Liu, Xinlei Yang, Zhenhua Li, Feng Qian

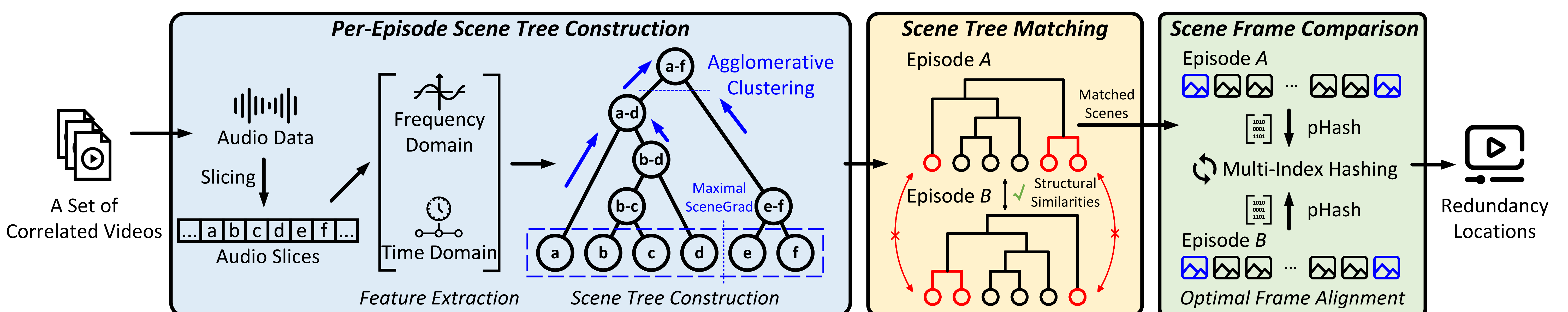


Correlated videos (e.g., a series of TV episodes) cover an average of **35%** Internet traffic

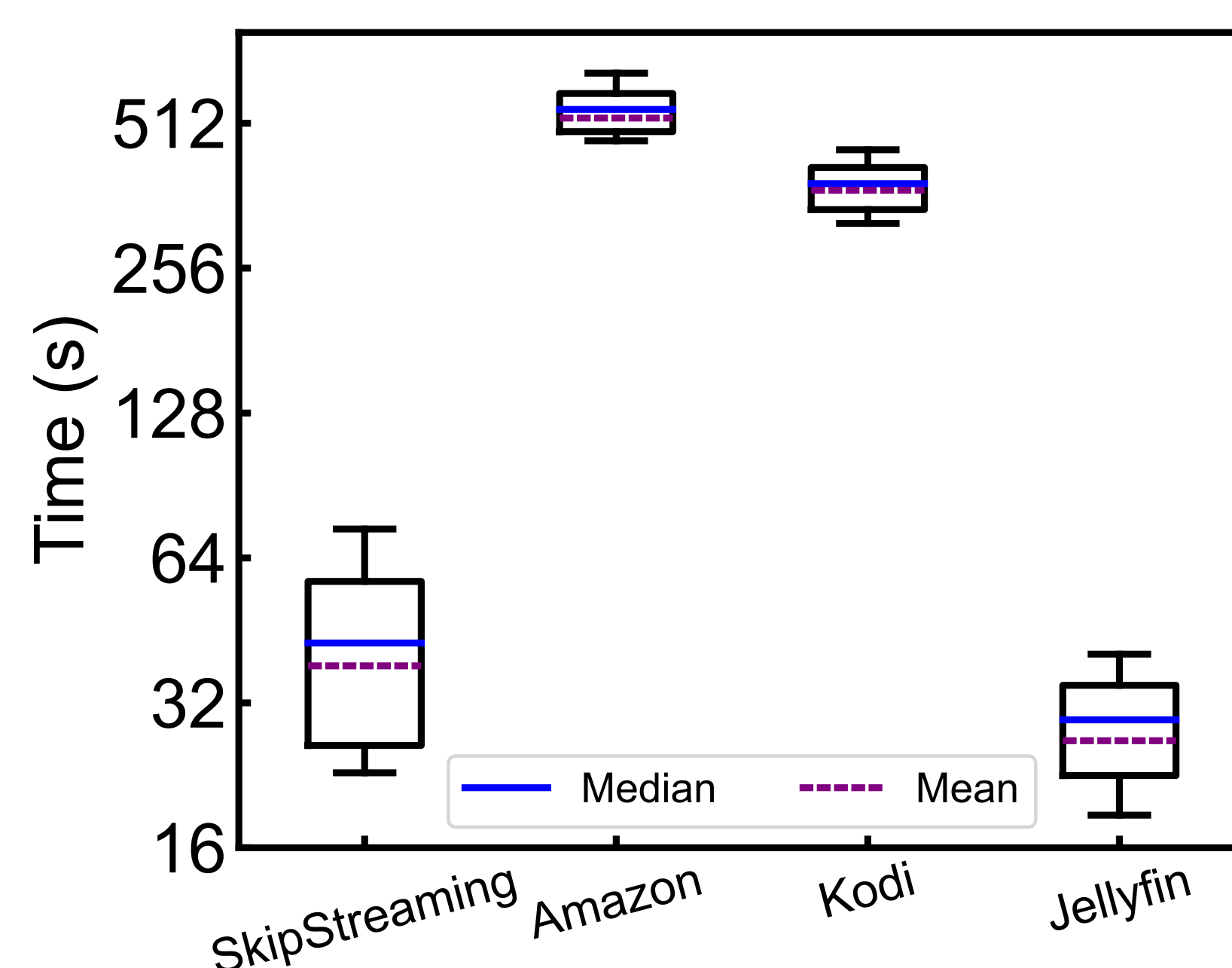
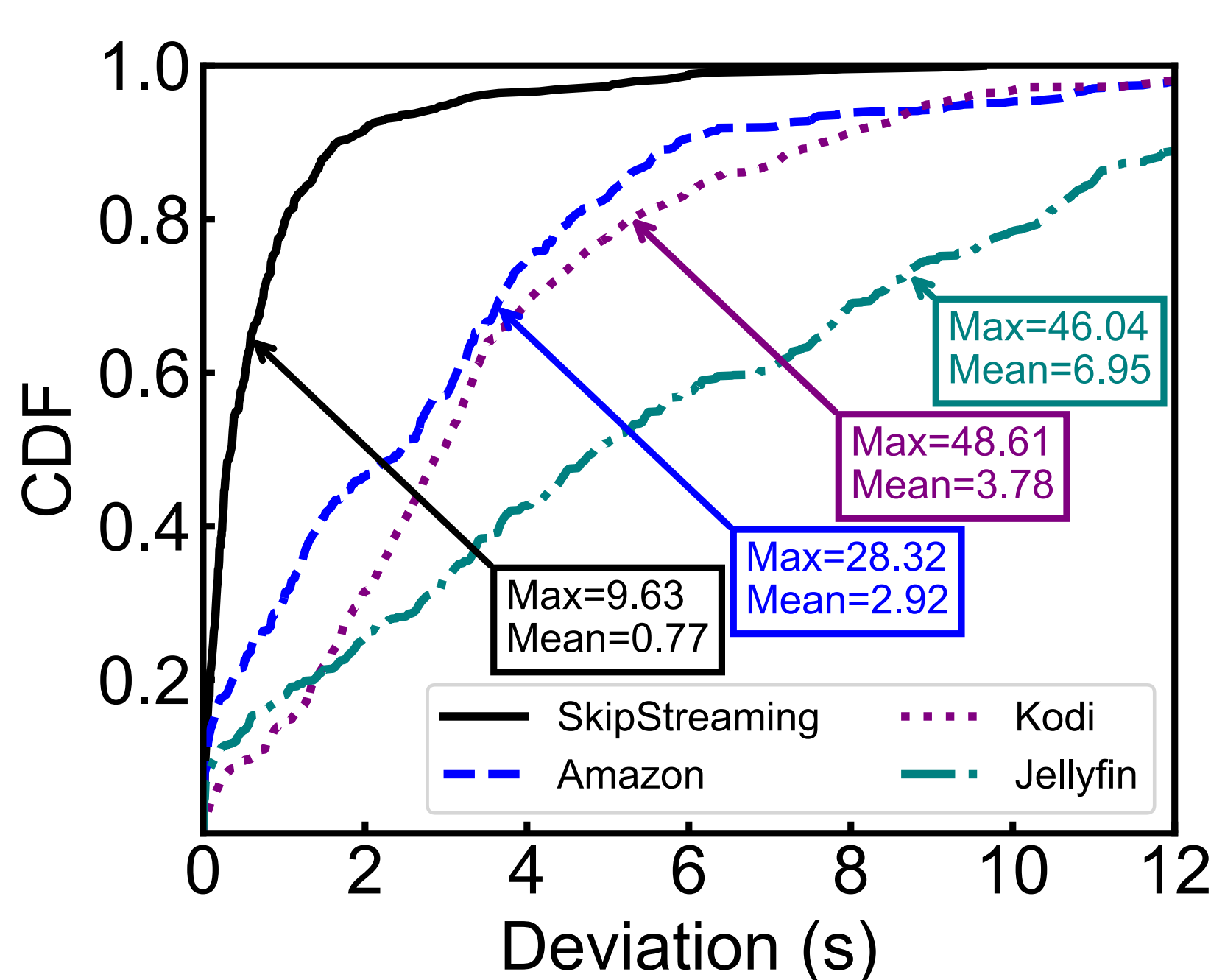
User-perceived redundant clips (e.g., intros, outros, and recaps) in correlated videos are skipped **costly** and **inaccurately**



Key observation: Redundant clips are made up of one or more **complete scenes**

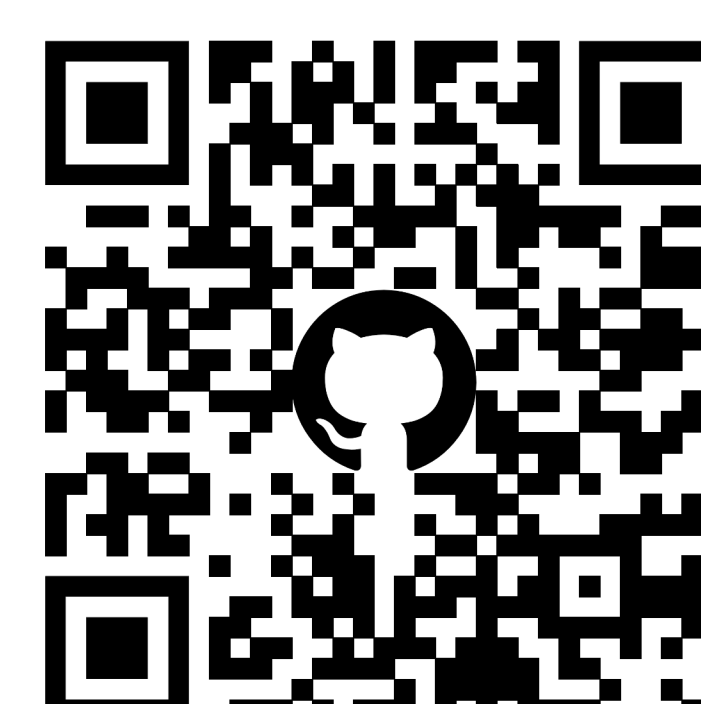


SkipStreaming: Fast and accurate visual redundancy detection based on the **Audio-guided Scene Sketch** methodology



- ~38 seconds to identify user-perceived redundant clips for a 45-minute video
- Incurring only **2% false positives** and **7% false negatives**, which will not affect user experiences

Code and data are publicly available at <https://skipstreaming.github.io/>



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