Generative Video Diffusion for Unseen Novel Semantic Video Moment Retrieval

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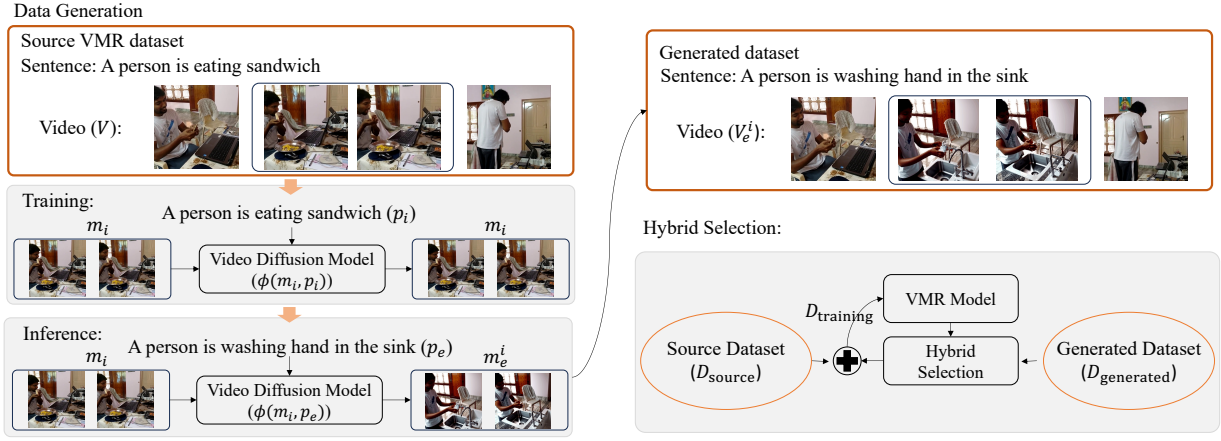
Problem Definition

The correlation between video moments and text is crucial for **video moment retrieval**, yet there is a scarcity of large-scale datasets.

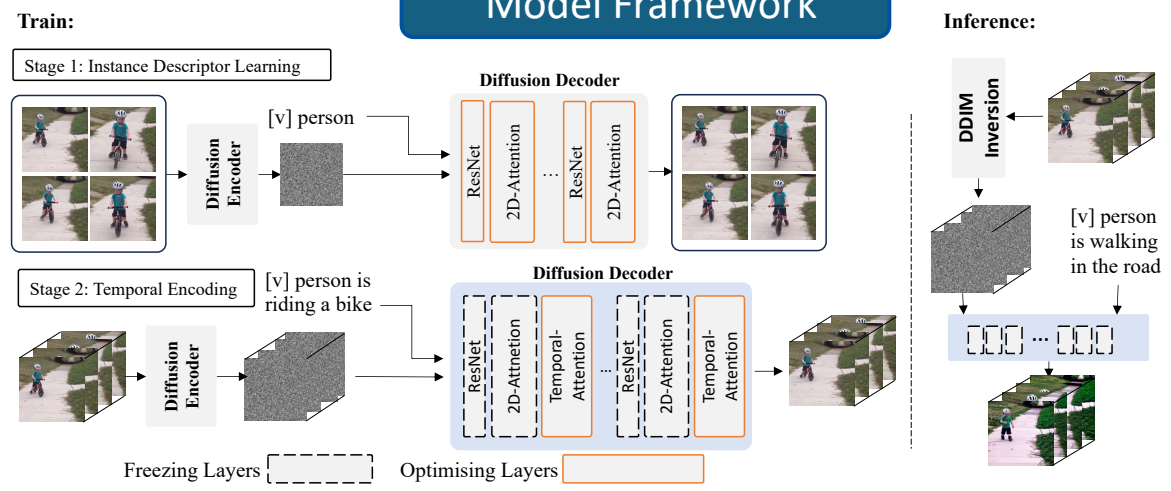
Solution

- A video diffusion model that synthesises training data
- A data selection module that selects beneficial data for the VMR task

Data Generation Pipeline



Model Framework



Video Editing Ability

Conclusion

- FVE is able to generate training data that benefits the VMR task
- FVE is able to change the action in a video and maintain other details.