





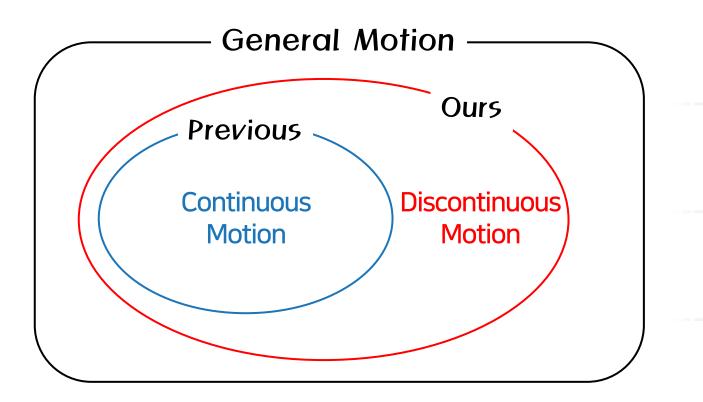
Exploring Discontinuity for Video Frame Interpolation

Sangjin Lee, Hyeongmin Lee, Chajin Shin, Hanbin Son, and Sangyoun Lee

Image and Video Pattern Recognition LAB
Electrical and Electronic Engineering Dept, Yonsei University

About ...

Exploring Discontinuity for Video Frame Interpolation



Solve?

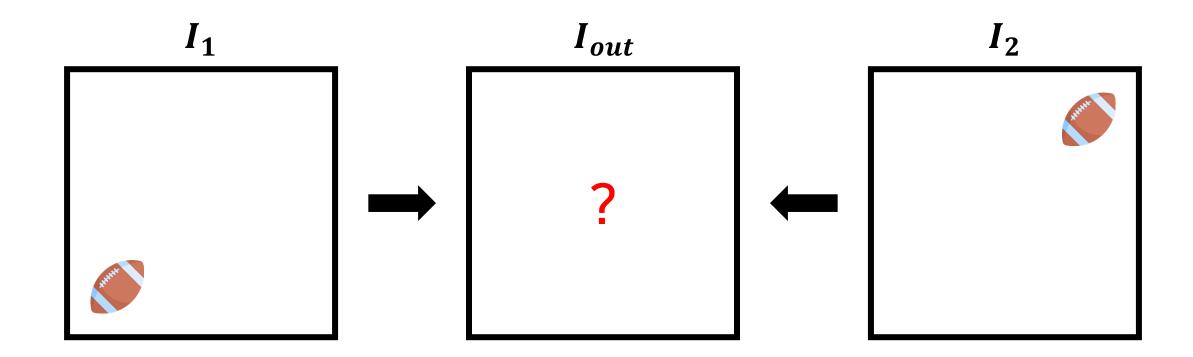
Data Augmentation

---- Discontinuity Map

----- Supervision & Dataset

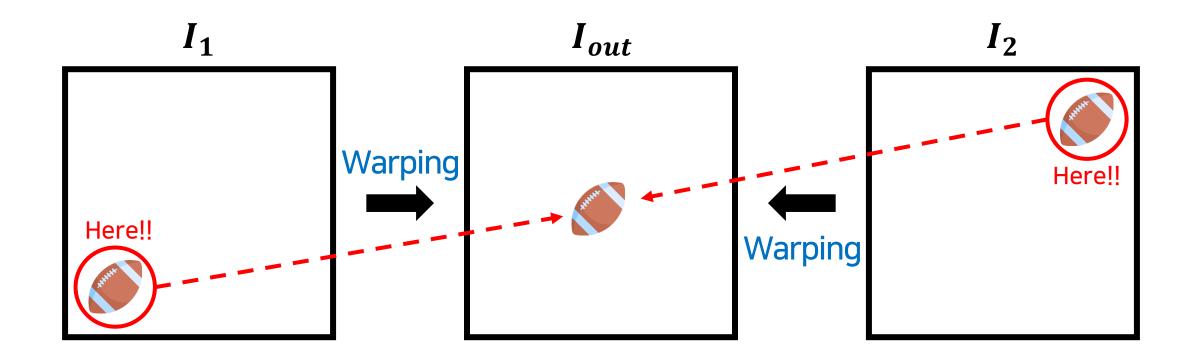








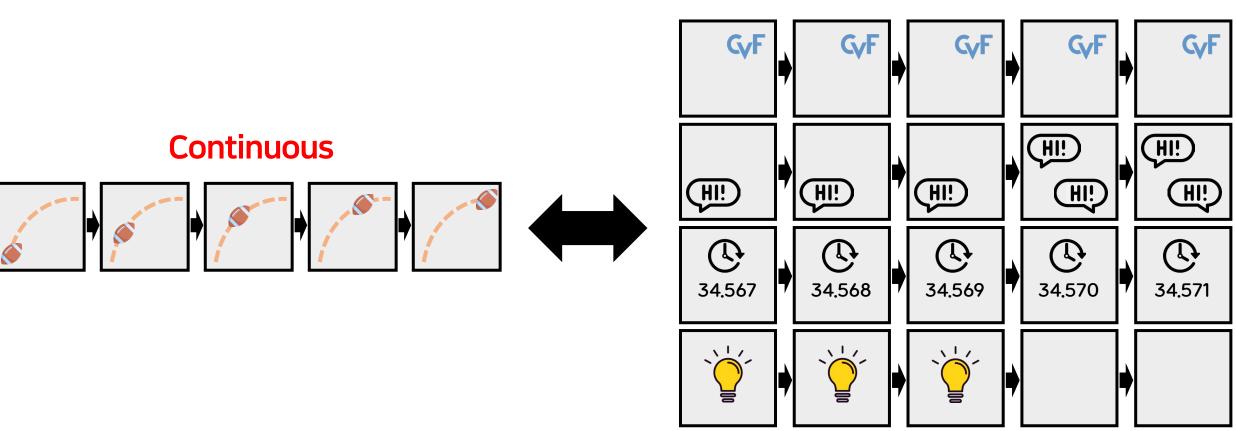








Discontinuous



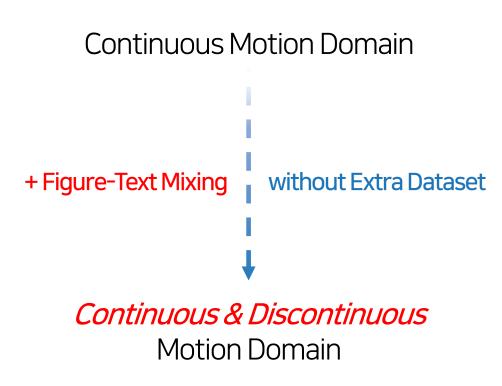
Previous Studies: Only Suitable for Continuous Domain!!





Figure-Text Mixing

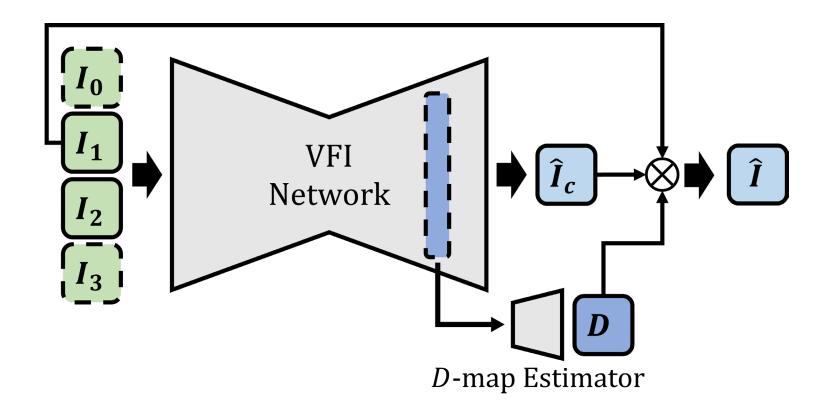








Discontinuity Map



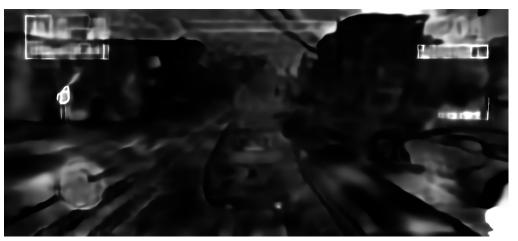
Output : $\hat{I} = (1 - D) \cdot \hat{I}_c + D \cdot I_1$

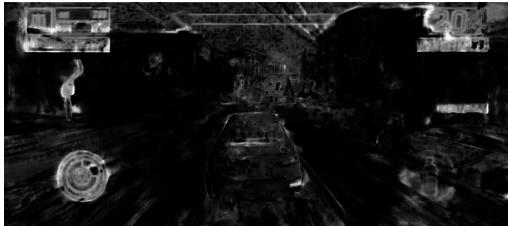




Discontinuity Map







D-map shows the user interface elements and some digits (Discontinuous motion)





Evaluation on GDM dataset: 30 sequence with 1920x1080 resolution



AdaCoF ABME IFRNet RIFE Ours GT







Contact me

⊠ Email: sglee97@yonsei.ac.kr

Source code: https://github.com/pandatimo/Exploring-Discontinuity-for-VFI



