

- Temporal Distribution Learning: Learn the distribution of temporal observations in a pixel, then classify if the pixel is foreground or background according to the distribution learned.
- Spatio-Temporal Distribution Learning: Incorporate the neighbouring information of pixels to improve the robustness and the efficiency of our background subtraction algorithm.
- Distribution Learning Layer: Devise a specific layer to learn the distribution.
- High Level Distribution Representation: Try to figure out what is the high level representation of distribution, what is the distribution of distribution.
- Deep Distribution Learning for General Problem: Extend the Deep Distribution Learning to other problems, instead of only used in background subtraction.

How You Plan to Implement Your Ideas

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Timeline for Deep Distribution

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References

- [1] C. Zhao, G. Dong, S. Zhang, Z. Tan, and A. Basu. Frequency regularization: Reducing information redundancy in convolutional neural networks. *IEEE Access*, September 2023. Department of Computing Science, University of Alberta, Edmonton, AB.