

Seminar: Vision Systems MA-INF 4208

Prof. Dr. Sven Behnke, Angel Villar-Corrales

1 Paper List

1. Advances in Self-Supervised Learning

- a) He, Kaiming, et al. *Masked Autoencoders are Scalable Vision Learners*. CVPR 2022. **Link**
- b) Feichtenhofer, Christoph, et al. *Masked Autoencoders as Spatiotemporal Learners*. ArXiv Preprint 2022. **Link**
- c) Sun, Jennifer J., et al. *Self-Supervised Keypoint Discovery in Behavioral Videos*. CVPR 2022. **Link**
- d) Chen, Xinlei, and Kaiming He. *Exploring Simple Siamese Representation Learning*. CVPR 2021. **Link**

2. Video Synthesis and Prediction

- a) Akan, Adil Kaan, et al. *Stochastic Video Prediction with Structure and Motion*. ArXiv Preprint 2022. **Link**
- b) Han, Ligong, et al. *Show Me What and Tell Me How: Video Synthesis via Multimodal Conditioning*. CVPR 2022. **Link**
- c) Gao, Zhangyang, et al. *SimVP: Simpler Yet Better Video Prediction*. CVPR 2022. **Link**
- d) Höppe, Tobias, et al. *Diffusion Models for Video Prediction and Infilling*. ArXiv Preprint 2022. **Link**

3. Unsupervised Object-Centric Learning

- a) Elsayed, Gamaleldin F., et al. *SAVi++: Towards End-to-End Object-Centric Learning from Real-World Videos*. ArXiv Preprint 2022. **Link**
- b) Sajjadi, Mehdi SM, et al. *Object Scene Representation Transformer*. ArXiv Preprint 2022. **Link**
- c) Choudhury, Subhabrata, et al. *Guess What Moves: Unsupervised Video and Image Segmentation by Anticipating Motion*. ArXiv Preprint 2022. **Link**
- d) Hénaff, Olivier J., et al. *Object Discovery and Representation Networks*. ArXiv Preprint 2022. **Link**