

# Comparing different state-of-the-art solutions for image prediction using time-series analysis

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- PredNet

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# Deep Learning

# Image Prediction











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- „Unsupervised Learning of Video Representations using LSTMs“ by Srivastava et. al. [? ]

# LSTM Autoencoder

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- Using the standard LSTM from Hochreiter & Schmidhuber [? ]

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- Autoencoder architecture

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- Useful for future image prediction & image reconstruction

# LSTM Autoencoder

- „Unsupervised Learning of Video Representations using LSTMs“ by Srivastava et. al. [? ]
- Using the standard LSTM from Hochreiter & Schmidhuber [? ]
- Autoencoder architecture
- Useful for future image prediction & image reconstruction
- Typical baseline for newer, more advanced algorithms

# LSTM Autoencoder

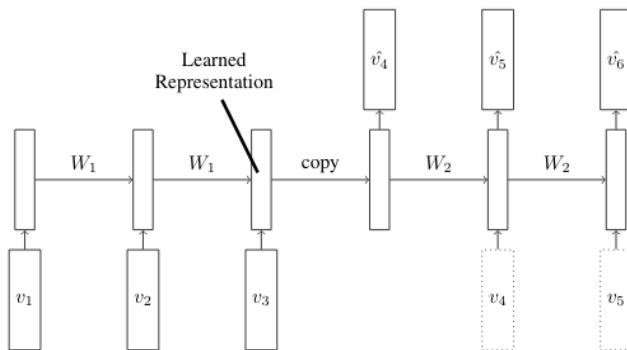


Figure: Future image prediction model [? ]



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# ConvLSTM Autoencoder

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- Similar to LSTM Autoencoder, but uses ConvLSTM instead
- Outperforms the LSTM Autoencoder

# ConvLSTM Autoencoder

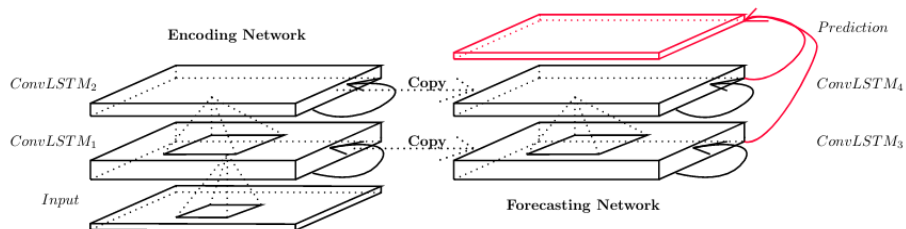


Figure: Future image prediction model [? ]

# Spatio-temporal Video Autoencoder

