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how to interpret latent space and how it relates to original features in LSTM autoencoders with temporal data ?

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The interpretation of latent space in LSTM autoencoders with temporal data can be approached from various angles. [Cha \(2019\)](#) suggests a framework for autoencoders that transforms the latent space, potentially improving performance. [Aigner \(2022\)](#) proposes a visual exploration method to understand the relationships between input and latent features, providing insight into the original variables. [Leeb \(2021\)](#) introduces interventional assays for probing the learned data manifold in the latent space, which can help identify inconsistencies and improve sample quality. Li (2019) focuses on disentangling the latent space to separate attribute information, allowing for attribute manipulation while preserving other information. These approaches collectively offer a range of tools for interpreting and utilizing the latent space in LSTM autoencoders with temporal data.

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Paper	Abstract summary
<div><div></div><div><div>On the Transformation of Latent Space in Autoencoders</div><div><div>Jaehoon Cha +2</div><div>arXiv.org</div><div>2019 5 citations</div></div></div></div>	Generative and denoising models based on the proposed framework can provide better performance than conventional variational and denoising autoencoders due to the transformation.
<div><div></div><div><div>Explaining Black Box with Visual Exploration of Latent Space</div><div><div>W. Aigner +6</div><div>Eurographics Conference on Visualization</div><div>2022 3 citationsDOI</div></div></div></div>	Autoencoders are a powerful yet opaque feature reduction technique.
<div><div></div><div><div>Interventional Assays for the Latent Space of Autoencoders</div><div><div>Felix Leeb +2</div><div>ArXiv</div><div>2021 1 citation</div></div></div></div>	The identified structure improves interpolation between latent vectors.
<div><div></div><div><div>Latent Space Factorisation and Manipulation via Matrix Subspace Projection</div><div><div>Xiao Li +3</div><div>International Conference on Machine Learning</div><div>2019 24 citations</div></div></div></div>	The quality of generation of our new model is highly competitive to a number of strong baselines.
<div><div></div><div><div>Temporal Latent Auto-Encoder: A Method for Probabilistic Multivariate Time Series Forecasting</div><div><div>Nam H. Nguyen +1</div><div>AAAI Conference on Artificial Intelligence</div><div>2021 36 citationsDOI</div></div></div></div>	A probabilistic latent space model enables nonlinear factorization of multivariate time series.
<div><div></div><div><div>Attribute-based regularization of latent spaces for</div><div></div></div></div>	The proposed method leads to disentangled and