

Using Generative Adversarial Networks for Time Series Forecasting

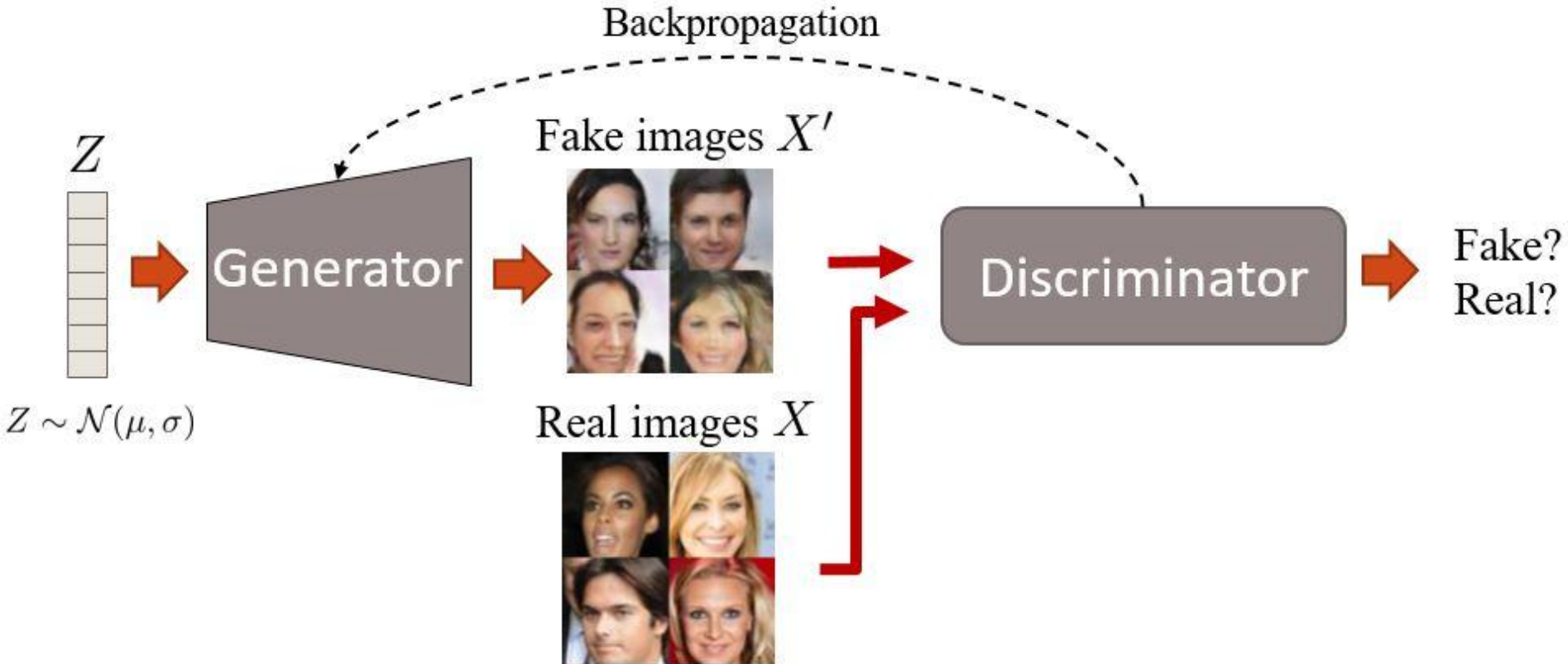
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What are Generative Adversarial Networks?



GANs variations

- Deep Convolutional GANs (DCGANs)
- Improved DCGANs
- Conditional GANs (cGANs)
- InfoGANs
- Wasserstein GANs
- Disco GANs
- GRANs

Time Series

Time series represents a series of data points in time order, which contains multi-level informations about the domain.

Time Series Forecasting

Conclusion: ANN (MLP, RNN, LSTM) \gg Other solutions

GANs to use

- **Classic GANs**
- **Improved DCGANs**

- **Conditional GANs (cGANs)**

- **cGRANs**

Plan for next year

1. Modify GANs model for time series data.
2. Try datasets to verify power of GANs
3. Survive