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Understanding characteristics in multivariate traffic flow time series from complex network structure

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Highlights:

1. We construct network from multivariate traffic flow time series.
2. A weighted Froenius norm is adopt to estimate similarity between multivariate time series
3. Principal Component Analysis is implemented to determine the weights.
4. We analyzed normalized network structure entropy and cumulative probability of degree.
5. We classify traffic state according to above two properties.

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