





An Exploratory Energy Study of The Smart Grid and Smart City Data From Australia

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OBJECTIVES

- 1. To identify climate variables related to the power consumption patterns in Australia
- 2. To undertake an exploratory study for the effectiveness of energy tariff programs for different households
- 3. To explore options of energy demand management for sustainable energy transitions

HIGHLIGHTS

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- Model energy consumption data as time series
- Discover discriminating shapelets (subseries) efficiently for shapelets model building
- Efficiently prune non-discriminating shapelets
- Efficiently select high quality of shapelets
- Use shapelets to segment energy consumption data



Efficient Shapelet Discovery for Time Series Classification



Using shapelet to distinguish the time series on top from the one in the bottom

SELECTED PUBLICATIONS

1. G. Li, B. Choi, J. Xu, S. S. Bhowmick, K. P. Chun, and G. Wong, "Efficient shapelet discovery for time series classification," IEEE Transactions on Knowledge and Data Engineering (TKDE), Under Review.