

EcoVis : Visual Analysis of Industrial- Level Spatio-Temporal Correlations in Electricity Consumption

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Frontiers of Computer Science, DOI: [10.1007/s11704-020-0088-8](https://doi.org/10.1007/s11704-020-0088-8)

Problems & Idea

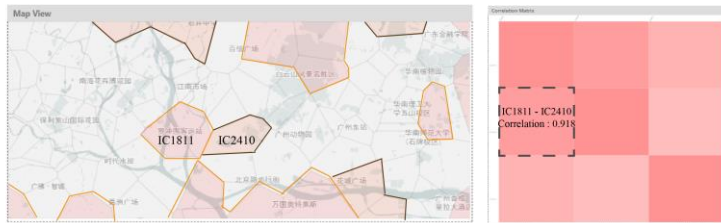
- Problems:
 - A lack of analytical tools has increased the difficulty to perform correlation and comparative analysis.
 - The large volumes of data produced by the industry reduces the human analysts' ability to process all of it and make it difficult to reveal the in-depth relationships.
- Idea:
 - EcoVis models spatio-temporal data into a correlation graph structure for easier analysis, while also introducing a Voronoi Grid to display the distributions of multiple instances in a single industry map.



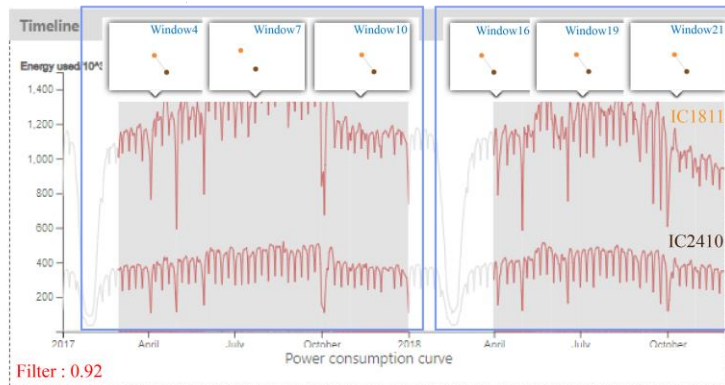
The EcoVis interface.

Main Contributions

- Identifying the Connections Between the Spatial (a) and Temporal (b) Correlations

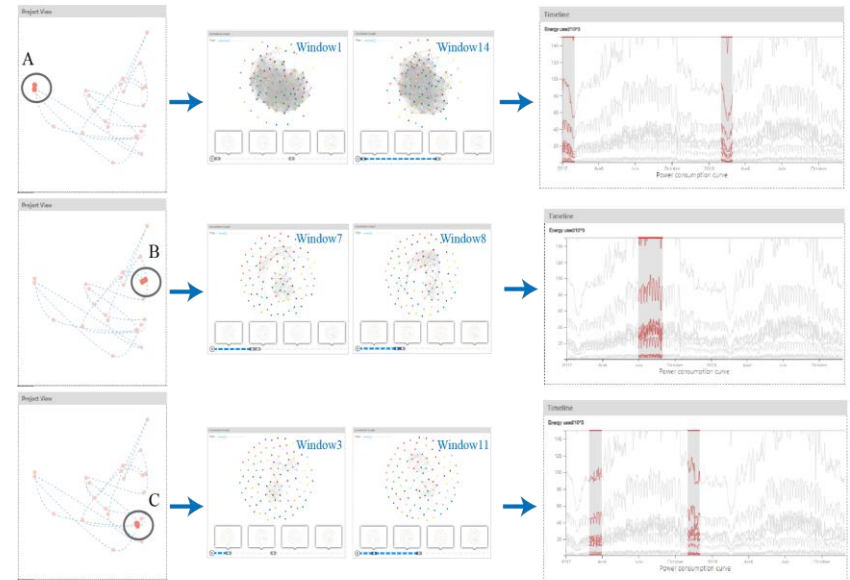


(a)



(b)

- Analyzing the Electricity Usage (c) of Industrial Groups (A,B,C)



(a)

(b)

(c)