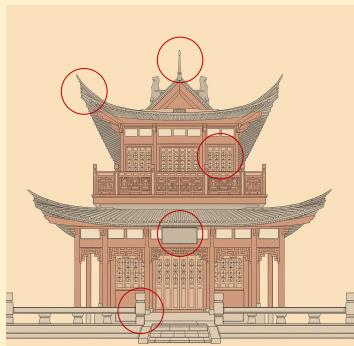


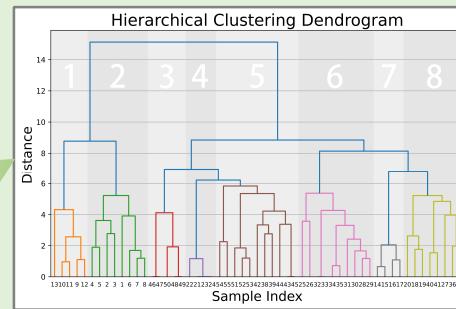
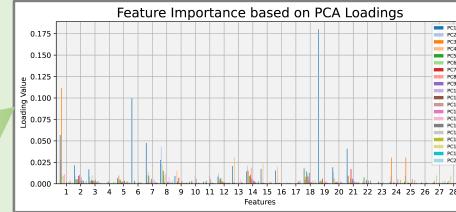
Cultural Heritage Relationship Evaluation Framework

Geometric Features



Samples

FSM



tSNE

UMAP

DBSCAN

More possibilities...

- Identifying key features that influence system relationships
- Constructing the systemic relationships of the research subjects

Cultural heritage research has a rich history, but understanding its systematic relationships remains a challenge. Inspired by machine learning and biology, we propose a streamlined approach: **Feature Sparsity Module + N**, combined in the **CHREF** Framework ("FSM + PCA + HCA"). It transforms heritage data into interpretable and visual results with minimal manual effort. Experiments on traditional Chinese brick kilns confirm its effectiveness, supporting the digital development of cultural heritage...