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Using climate and landscape satellite data to explore spatio-temporal patterns for assessing extreme urban heat through complex network analysis: the case study of Athens.

Using ecological networks to understand persistence in empirical Plant-Pollinator communities

Minority representation and relative ranking in sampling attributed networks

Embedding networks into hyperbolic spaces by greedy routing optimization

A Framework for Structural Representation of Nodes in Hyper Networks

Maximal modularity of PSO networks and its consequences on hyperbolic embedding

A Simple and Efficient Method for Target Control Based on the Path Cover Problem

On Centrality and Core in Weighted and Unweighted Air Transport Component Structures

Randomized reference models for temporal networks

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Exploring the Power of Weak Ties on Serendipity in Recommender Systems

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A dynamic Fitting Method for Hybrid Time-Delayed and Uncertain Internally-Coupled Complex Networks: From Kuramoto Model to Neural Mass Model

Global synchronization measure applied to brain signals data

Characterizing growth in decentralized socio-economic networks through triadic closure-related network motifs

Sentiment-Aware Network Extraction from News Corpus using LLMs: An Empirical Validation with Legislative Agreement

Influence of Virtual Tipping and Collection Rate in Social Live Streaming Services

Exploring the space of graphs with a fixed discrete curvature

Leveraging the power of Signatures for the construction of topological complexes for the analysis of multivariate complex dynamics

Uncertainty in GNN Learning Evaluations: The Importance of a Consistent Benchmark for Community Detection.

Dual communities characterize structural patterns and robustness in leaf venation networks

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