

# Evaluation of algebraic graph clustering algorithms for complex networks

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**Abstract**—We review main graph clustering algorithms which are MST-based, Shared Nearest Neighbor and Edge-Betweenness algorithms and show novel algebraic graph implementations using Python. We compare them using randomly generated scale free graphs and provide pointers for parallel processing

**Index Terms**—*graph clustering, MST-based clustering, shared nearest neighbor clustering, edge-betweenness clustering*