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Data Processing and Clustering of Multimode Weighted Networks

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The present contribution aims at introducing an analytic strategy to study complex networks in which sets of different units are linked. Multimode network formalization and data processing are reported by considering real-data on intra-national university mobility. A community detection algorithm is adopted for partitioning filtered bipartite weighted networks describing Italian student mobility, from the provinces of origin to the university of destination in which specific degree programmes are offered. Clusters' solutions confirm the preferential attractiveness routes of Northern universities as well as the dichotomy between scientific and humanistic fields, recalling the South-to-North and the North-to-North student mobility trajectories.

Keywords

Multimode network, Conditional projection, Network filtering, Network simplification, Community detection, Student mobility

Topics

• Student mobility network

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