

عنوان مقاله:

Multiplicity and Exchange in the World Trade and Applied Diplomacy Structure Regarding Social Network Analysis

محل انتشار:

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خلاصه مقاله:

In the Multi-relational networks, the study of concurrent choices or multiplicity, and exchanging the choices is important. In this paper, we reviewed multiplicity and exchange in the literature and tried to study these effects in the world network of trade and diplomacy. In addition to reporting the results of exploiting other researchers' contributions in the case of trade and diplomacy relations on our data, we proposed our own solution to study and evaluate social structure in the situation that multiplicity and exchange effects are significant. Due to the significant number of concurrent choices and choice exchange, we used appropriate probable block model of multiplicity and exchange. Specifically, we found that there are four clear patterns in the world trade and diplomacy network: Trade affected by diplomatic hosting, Trade affected by diplomatic activity, Diplomacy affected by export and Diplomacy affected by import.

کلمات کلیدی:

Block modeling, Exponential random graph model, Multiplicity and exchange pattern, Positional analysis, World system

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