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Understanding the competitive advantage of TPP-related nations from an econophysics perspective: Influence caused by China and the United States

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Highlights

Resource Allocation Process reflects the scarcity of resources of object nodes, even there are weights on the edges connecting objects and participants;

Distinguishing the simultaneous roles of industry sectors on the GVC as upper-stream and lower-stream ones based on bipartite graph theory contributes to analyzing the competition relationship among industrial sectors;

National Competitive Advantage Index is introduced to reflect the national competitive status on the basis of nodes' out-strength in GIRC� model.

A TPP without both the United States and China will undermine the two countries' competitiveness, and China's impact on GVC will be truly weakened if a TPP agreement led by the United States is reached and vice versa. Anyway, A TPP including both these two countries would serve the mutual interests.

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