

米中貿易戦争とその後の貿易パターンの ネットワーク分析

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January 12, 2024

Abstract

The US-China trade war since 2018 has had a major impact on the world economy. However, most research on this topic has focused on the magnitude of the effect and not much on its characteristic and how the relationship between countries has changed. I employ a complex network approach for the timeframe 2017-2019 to study the change in characteristic of the world trade network of one of the product categories (Telecommunication equipment) that had the most impact due to tariffs in the early years of the trade war. I find that the communities in the world trade network has followed a pattern similar to the communities in the world RTA network. Suggesting that in times of shock, the way in which countries connect to each other differ from when there aren't major shocks in the network. I also show that the relationship between countries within the same community has changed, mainly the rise in Vietnam's network power.

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1 TODO

1.1 1/12

Divide links between EU/abbvRTAs and others with their RTA size

Create RTA for each year 2017-19

Recompute NMI for each year

Compare NMI(prod, tot), NMI(prod, dist), NMI(prod, rta) for each year

2 Introduction

Prior research on your topic.

3 Data and Methods

Data: BACI trade data from CEPII.

date range: 2017-2019

Methods: Network analysis, centrality measures, etc.

3.1 Data

3.2 Community detection

3.3 Network centrality

4 Networks

4.1 Product Network

4.2 RTA Network

4.3 Military Alliancce Network

5 Results