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Perspective

Editorial note on the aerospace ecosystem development

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DESCRIPTION

It is expected that the aerospace production industry will continue to expand. As demand increases, the existing global aerospace ecosystem is being forced to develop and adapt to new challenges. Its evolution is demonstrated by new entrants in the aerospace manufacturing industry and the creation of new ecosystems. It is thus important to understand how the aerospace ecosystem has developed in order to prepare optimal conditions for its development. Economic and network science approaches have been successfully combined in recent studies to map, analyse, and forecast the evolution of industrial ecosystems. The research is carried out at macroscopic (network) and microscopic (network) stages. In order to find patterns that reflect the distribution and evolution of exported products across ecosystems, we use nestedness analysis, which was inspired by ecological network studies. Our analysis shows that developed countries are more likely to achieve a discovered competitive advantage (RCA) in the same category of products as developing countries. It appears that habitats are becoming more.

As they begin to grow a greater RCA, countries also appear to become more nestled in their aerospace product space. It is shown that although countries benefit from unique goods, they appear to increase competition with each other as well. Further research reveals that processed products are more closely related to the aerospace environment than primary products; and the automotive industry, in particular, shows the strongest correlation with the positive evolution of the aerospace sector. Countries with well-developed aerospace ecosystems are competing. It tends to concentrate on automotive components, general machinery for industrial use, machinery and equipment for power generation, and chemical materials and goods.

Compared to previous studies applying scientific-based network methodologies to macro-economic analysis, This paper analyses the evolution of a specific industrial ecosystem, namely the aerospace industry, using these approaches. We establish bipartite nation-product networks based on trade data collected over a 25-year period to recognise trends and similarities in the evolution of established aerospace manufacturing country ecosystems.

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