

Research Article

Robustness Analysis of the Regional and Interregional Components of the Weighted World Air Transportation Network

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The robustness of a system indicates its ability to withstand disturbances while maintaining its properties, performance, and efficiency. There are plenty of studies on the robustness of air transport networks in the literature. However, few works consider its mesoscopic organization. Building on the recently introduced component structure, we explore the impact of targeted attacks on the weighted world air transportation network on its components. Indeed, it contains five local components covering different regions (North America-Caribbean, Europe-Russia, East and Southeast Asia-Oceania, Africa-Middle East-Southern Asia, and South America) and one global component linking these regions. We investigate targeted attacks based on influential weighted centrality measures (strength, betweenness, and PageRank). Results show that the local components gradually separate from the world air transportation network as the fraction of removed airports grows. The weighted betweenness attack removes fewer top airports to isolate the regions compared to its alternatives. Furthermore, it is still convenient to travel locally in the separate areas. In contrast, strength and PageRank attacks need to target more airports to split the network. However, they are more disruptive. Indeed, the size of the isolated local components reduces drastically, so it becomes more challenging to travel locally. Looking at the world air transportation network through its component structure reveals a new viewpoint on its resilience. It opens new perspectives to design more efficient attacks.

1. Introduction


The air transportation network is essential for the development and integration of countries. Indeed, millions of people and tons of frets from different world regions pass through the air. Ensuring secure and effective air transport infrastructure and traffic is a vital issue. The complex network paradigm allows for a better understanding of an extensive range of complex in-interconnected systems such as infrastructure, economics, and social networks [1]. Considering the air transportation networks where nodes represent airports and links are flights between two airports, network robustness is a popular tool to study the response to possible disruptions. Disruptions can be accidents or intentional attacks on airports or flights. Numerous

investigations on the robustness of air transport networks (worldwide, regional, and national airlines) have been conducted [2–7]. In the following paragraph, we concentrate on targeted attacks based on centrality measures. It consists in ranking the airports according to a given centrality measure and removing the nodes in the descending order of their centrality value. The following paragraph summarizes some important related works.

In [8], the authors explore the robustness of the global air transportation network. They investigate five centrality measures (degree, betweenness, modal analysis, damage, and Bonacich power). They measure the effectiveness of the attacks using the size of the largest connected component (LOC). Indeed, the attacks split the network into multiple components. Results show that damage is most effective

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William H. Miernyk



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Spatial and Regional Analysis Methods in Forestry Economics Alex Obiye, Daniel E. Chappelle, Con H. Schallau, 1986 A Selected Annotated Bibliography on the Analysis of Water Resource Systems Water Resources Scientific Information Center, 1975 Energy Abstracts for Policy Analysis, 1981 A Selected Annotated Bibliography on the Analysis of Water Resource Systems Daniel P. Loucks, 1975 *Multiregional Input-output Analysis: The U.S. input-output accounts and model* Karen R. Polenske, 1980 **Multiregion** R. J. Olsen, 1977 **Labor Literature** United States. Department of Labor. Library, 1977 RIMS II Joseph V. Cartwright, Richard M. Beemiller, Richard D. Gustely, 1981 **Creating Jobs Through Energy Policy** United States. Department of Energy. Advanced Energy Systems Policy Division, 1979 Labor Literature, 1977 Regional Input-output Model for Small Scale Industries Kaushal Kumar Saxena, 1987 **Monthly Labor Review**, 1976-06 Publishes in depth articles on labor subjects current labor statistics information about current labor contracts and book reviews Trade, Networks and Hierarchies Geoffrey J.D. Hewings, Michael Sonis, David Boyce, 2013-04-18 In 1989 after several years of discussion and negotiation the Regional Economics Applications Laboratory REAL was formed This unique relationship between the Federal Reserve Bank of Chicago and the University of Illinois at Urbana Champaign has been a significant source of intellectual inspiration for many students visiting colleagues and members of the participating institutions for the past decade The idea for REAL was hatched by Philip Israilevich and Geoffrey Hewings in typical Chicago style in the back room of a local bar In early December 1997 their collaboration came to an untimely end when Philip died after a three year battle with cancer The challenge of moving across a spectrum from theory to model development to

implementation and interpretation provided the underlying motivation for REAL's formation together with an equally important component namely the translation of many of these efforts into a form that could be understood and implemented by policy makers. For Philip REAL and the Regional Science Association International provided the forums for his intellectual endeavors although he also contributed many papers in banking. In recognition of his contributions and to provide a sense of the current research in the fields in which he published many of the authors of these chapters assembled in Chicago in November 1998 to participate in a small seminar in his honor. Several others who were not able to come nevertheless contributed chapters to this volume. Subsequently all of the papers have been revised and updated.

Regional Analysis and Regional Policy William H. Miernyk, 1982 *A selected annotated bibliography*, 1975 **Economic Research Studies of the Economic Development Administration** United States. Economic Development Administration, 1974

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