

Lecture 1 (Luca De Benedictis – University of Macerata)

International trade networks

Reference

- Matthew Jackson (2008), *Social and Economic Networks*, Princeton University Press, New York, USA.

Lecture topics

This lecture will introduce you to the analysis of international trade data through the tools of Graph theory and Network science:

1. Objective and major features: the study of interdependence
2. Building blocks: data, matrices, sparsity, visualization, analysis, network statistics.
3. Major applications: international trade (and migration)
4. Towards inference

Readings

- De Benedictis Luca, and Lucia Tajoli (2011), "The world trade network." *The World Economy* 34.8: 1417-1454.
- De Benedictis Luca, Silvia Nenci, Gianluca Santoni, Lucia Tajoli, Claudio Vicarelli (2014), "Network Analysis of World Trade using the BACI-CEPII dataset." *Global Economy Journal* 14.3-4: 287-343.

Advanced readings

- de Martí, J. and Y. Zenou (2011), "Social networks" In: I. Jarvie and J. Zamora-Bonilla (Eds.), *Handbook of Philosophy of Social Science*, London: SAGE Publications, Chap. 16, 339-361.