MODELLING ECONOMIC STRUCTURES FROM A QUALITATIVE INPUT-OUTPUT PERSPECTIVE: GREECE IN 2005 AND 2010

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The Input-Output model has made extensive use of methods originally developed in graph and network theory in order to carry out structural analysis. It is customary in the field to take a deterministic perspective. Yet the model has been extended to include stochastic experiments. This paper aims at modelling the connectivity in the Greek economic structure from a qualitative viewpoint for 2005 and 2010, dividing sectors by groups of differentiated technology intensity. The methodology adapts a model based on families of distributions that allow predicting and analysing network structures. Results produce interesting insights about the Greek economic structure, useful to understand some of the structural problems this economy has faced.