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TITLE: TECHNOLOGICAL INNOVATION, NETWORKS AND THE INPUT-OUTPUT ANALYSIS

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ABSTRACT:

In the last few years network analysis has boomed in the social sciences as a whole. In economics network analysis has been used to study various phenomena, such as innovation, which in turn is one feature that the theory has not been fully explained. Network analysis employs tools and concepts developed within graph theory, which has also been already used in the context of the multisectoral models, such as the Qualitative Input-Output model. Innovation however, is not a priority within the Input-Output model, which is basically static in nature. This paper intends to make an initial revision of the methodology employed by a number of authors analysing innovation, as well as discussing ways to accommodate such methodologies within the Input-Output model.