

Taiwan's Industrial Development Models: an inductive research from Taiwan's economic dynamics by utilizing Cluster Mapping framework

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Economic dynamics has become an important study especially when big economic data are available in a timely basis. This research proposes the measuring of economic dynamics to derive industrial agglomeration models. The paper describes the process deriving two industrial development models by an inductive research on Taiwan's economic dynamics from Taiwan's census data from 2006 to 2011. One model is the knowledge spillovers to the adjacency of locations with wage growths, and the other model is the supply-chain migration to distant locations with wage reductions. The paper compares the two models and informs their derived development properties. The dynamics are measured with variables from the calculated data to arrive employment growths, revenue growths, and wage growths. The research describes the relations among these three sets of dynamics with the labor supply as a contextual variable. The visualizations of 3-dimensional charts are developed based on Cluster Mapping framework as an important tool of the dynamic analysis.

Keywords: Economic Dynamics, Agglomeration, Spillovers, Supply-Chain Migration, Cluster Mapping Framework