



Capacity Measurements in Airport Sector: Drawbacks of Conventional Methods and Benchmarking Airports Using Declared Capacity

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Abstract: The capacity measurement and efficiency benchmarking studies for airports have thus far relied on econometrical approaches such as "DEA", "SFA" or "TFP". Within these models the variables used were related to infrastructure, i.e. number of runways, terminal area and number of gates, which actually lead to mistaken conclusions. These drawbacks of conventional methods together with different definitions of "airport capacity" led to the motivation of using runway, apron and terminal capacity in a consistent way for benchmarking international airports. This paper therefore aims to identify these drawbacks in detail and tries to develop a model for benchmarking airports by making use of capacity data.

Keywords: Airport capacity, Benchmarking, Declared capacity

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