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## Estimation of Alonso's Theory of Movements for Commuting

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Jacob J. de Vries

# Estimation of Alonso's Theory of Movements for Commuting

William Alonso published his Theory of Movements in 1978. In this Spatial Interaction Model, the flows depend on the spatial positions of the origin and the destination regions. In the context of commuting, residential and employment regions interact through accessibility, affecting the whole system of commuting flows. This systemic model is also known as the Transportation Model with Elastic Constraints. This thesis presents a method to estimate the underlying parameters of the model, which is applied to analyze commuting flows between municipalities in Denmark. The main message of this thesis is that the interdependence between origin and destination regions has consequences for the choice of econometric methods.

Jaap de Vries (1964) has always been interested in trains, spatial planning, and numbers. He studied econometrics at the VU University in Amsterdam, and wrote this thesis at the Department of Spatial Economics. He worked as a researcher at the Netherlands Institute for Spatial Research (RPB), and as a project manager for the passenger association ROVER. In addition, he was a member of the Amsterdam Council for the City Development (ARS). In recent years he has worked as a consultant in the railway sector.

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