

Using GIS Database in Agent Based Modeling and Simulation

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Abstract

This article is a description of the Geographical Information System (GIS) database, the multi-agent systems and how the connection between these two concepts creates new study opportunities in the field of modeling and simulation. As it is shown in this paper multi-agent models are a very efficient technique in analyzing traffic systems. Agents alone could not yet manage to create a full image of a real terrestrial, air or nautical traffic sum of events. To accomplish this task, information about the physical environment is needed and GIS database contains these informations.