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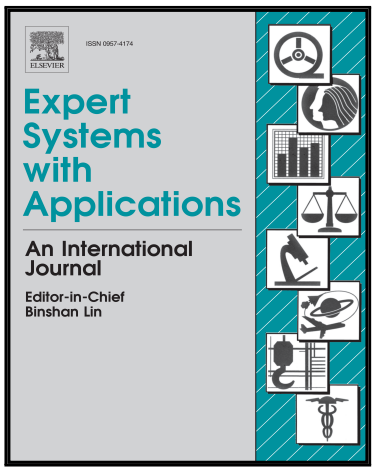

Hierarchically Linked Infinite Hidden Markov Model based Trajectory Analysis and Semantic Region Retrieval in a Trajectory Dataset

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Highlights

- A novel model for trajectories and semantic regions (sest-hiHMM) is proposed.
- A sticky version of sest-hiHMMs is proposed for reducing redundant semantic regions.
- An extended definition of semantic regions covers actual regions, not sets of points.
- Our models concern the temporal dependency of observations in a trajectory.
- Our models retrieve reasonable semantic regions from a real trajectory dataset.

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