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DST-Predict: Predicting Individual Mobility Patterns From Mobile Phone GPS Data

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• **ABSTRACT** Predicting spatial behaviors of an individual (e.g., frequent visits to specific locations) is important to improve our understanding of the complexity of human mobility patterns, and to capture anomalous behaviors in an individual's spatial movements, which can be particularly useful in situations such as those induced by the COVID-19 pandemic. We propose a system called *Deep Spatio-Temporal Predictor* (DST-Predict), that can predict the future visit frequency of an individual based on one's past