

## **236. AUTOMATIC PLACE EXTRACTION AND LABELING DATA FROM LONGITUDINAL SMARTPHONE**

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The location tracking functionality provides unprecedented opportunity to the understanding of individual mobility in daily life. I am interested in understanding human mobility patterns based on sequence of place visits which encode at a coarse resolution, most daily activities. For the first ten times we are using the GPS convention, through that data can be registered in our server. After that if the connection is on or off that will not be considered through the server places can be registered. We are creating an application that can be implemented and installed in our mobile phone. Through the web service code and URL the server can be connected and data can be registered. First, we study human mobility from sequences of place visits, including visiting patterns on different place categories. Second, we address the problem of automatic place labeling from smart phone data without using any geo-location information. Our study on a large-scale data collected from 114 smart phone users over 18 months confirms many intuitions, and also reveals findings regarding both regularly and novelty trends in Visiting patterns.

Keywords: Smartphone Data, Human Mobility, Place Extraction, Place Visit, Place Labeling, Location Monitoring.

*Journal of Science and Innovative Engineering & Technology*