

## Quantifying Mobility of Urban Inhabitant Based on Social Media Data

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**Abstract :** Check-in locations on social media provide information about an individual's location. The millions of units of data generated from these sites provide knowledge for human activity. In this research, we used a geolocation service and users' texts posted on Twitter social media to analyze human mobility. Our research will answer the questions; what are the movement patterns of a citizen? And, how far do people travel in the city? We explore the people trajectory of 201,118 check-ins and 22,318 users over a period of one month in Makassar city, Indonesia. To accommodate individual mobility, the authors only analyze the users with check-in activity greater than 30 times. We used sampling method with a systematic sampling approach to assign the research sample. The study found that the individual movement shows a high degree of regularity and intensity in certain places. The other finding found that the average distance an urban inhabitant can travel per day is as far as 9.6 km.

**Keywords :** mobility, check-in, distance, Twitter

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