# Evaluating the Performance of Kinematic PPP and Differential Kinematic Methods in Rural and Urban Areas 

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## SUMMARY

This study examines the performance of Kinematic PPP and differential Kinematic methods in rural and urban areas. For this purpose, three different routes were selected. They are Campus, Campus-Ardicli village and Bosna-Hersek district route. Campus route has no large number of high buildings but signal loss may be possible. While the Campus-Ardicli village route is suitable for satellite based positioning because of open-sky, Bosna-Hersek district route has a lot of high buildings that may cause signal loss and decrease the number of visible satellites. Dual-frequency GNSS receivers was used for data collection. Cut of angle and epoch interval was chosen $10^{\circ}$ and 1 second, respectively. Collected data were processed by using CSRS-PPP and Leica Geo Office 5.0 software's for kinematic PPP and differential kinematic methods respectively. PPP and Differential Kinematics' results were compared with respect to rural and urban regions separately, based on three routes.

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