

# Aplicación móvil para localización de interior mediante fusión de tecnologías

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## RESUMEN

High-precision indoor location has become a necessity for the new location-based services that are emerging around 5G. The European LOCUS project is a research Project that seeks to achieve high-precision location based on the 5G network. This work reflects one of the proof-of-concepts of the LOCUS project in which we propose the opportunistic fusion of different technologies, such as UltraWide Band (UWB) and WiFi Fine Time Measurement (FTM), to improve location accuracy. For this purpose, an experimental setup has been settle to validate the presented system, using both technologies due to their incorporation in the latest smartphones on the market. In this way, the use of fusion in trilateration is validated as an algorithm that significantly improves the positioning error by overdetermining the localization problem and also improves the coverage area.

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