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Artikel

[**A High Accuracy Time-Reversal Based WiFi Indoor Localization Approach with a Single Antenna**](https://limo.libis.be/primo-explore/fulldisplay?docid=TN_cdi_webofscience_primary_000448661500265&context=PC&vid=KULeuven_ODISEE&lang=nl_BE&tab=all_content_tab&query=title%2Ccontains%2CWifi%2CAND&query=title%2Ccontains%2C%22indoor%20localization%22%2CAND&query=title%2Ccontains%2CTime%2CAND&mode=advanced&offset=0)

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Due to the ubiquity of Wi-Fi infrastructure, Wi-Fi-based

indoor localization technology is the mainstream solution to

the above problem in academic. At present, most of the Wi-

Fi-based solutions are using fingerprinting approaches [2-5],

which will be easy to implemented. When the fingerprint

database is constructed in off-line stage, they can achieve

meter-level localization accuracy in on-line stage. As is

known to all, the disadvantage of fingerprinting-based

approaches is that the fingerprint database construction takes

a lot of time and resources. Moreover, when the environment

changes, we need to reconstruct the fingerprint database,

otherwise the performance of localization will be deteriorated

significantly.

Comparing with fingerprinting-based approaches, Angleof-

Arrival (AoA) based approaches have attracted widely

attention due to their zero start-up costs. Recently, multiantenna

has been deployed in the commodity Wi-Fi

infrastructure, which allows us to perform AoA-based indoor

localization approaches via Wi-Fi.