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Title: «User-side Channel Charting for Access Point Selection»

Short Abstract:

End-user devices often have access to wireless networks managed independently by different operators, and must decide for themselves which one to use as they move. We propose a mobility-aware connectivity management approach based on a new framework, Channel Charting, that builds a map of the physical space from Channel State Information. This map is used to learn the spatial evolution of wireless link quality (e.g., RSSI) in order to adapt the access point selection scheme.