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Aymen JAZIRI is born in Tunisia. He received a double degree from Ecole Supérieure des Communications de Tunis (SUP'COM), Tunisia and SUPELEC, France in 2013 (Engineering degree in Telecommunications and MSc degree in Wireless communications). He is currently pursuing a Ph.D. degree with Orange Labs jointly with Telecom Sudparis, France.

During his PhD, Mr. Jaziri published 2 referred journal papers and 5 conference papers and submitted 3 patents. He has served as a TPC member of Globecom 2015 and also as a reviewer in several conferences. His current research interests include HetNets' planning and performance analysis of wireless networks.

“System level analysis of heterogeneous networks under imperfect traffic hotspot localization”

Abstract:

Analysis of small cell deployment under the presence of traffic hotspots is a relevant issue to investigate as it can be included in the network planning process. Moreover, considering the impact of imperfect small cell positioning provides important results in terms of hotspot localization accuracy, beyond which it is worthless to perform network optimization based on the information provided by the used localization technique. In this study, we firstly perform static level analysis of the system considering the impact of imperfect small cell positioning with respect to traffic hotspots. We secondly introduce the dynamics of the system, characterized by random arrivals and departures of users after a finite service duration, and evaluate the system performances.