

Selection of Mobile Edges for a Hybrid CrowdSensing Architecture

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Abstract — Mobile crowdsensing aims at the collection of users' data on the environment by leveraging personal devices, usually smartphones. Its popularity is due to the ability of reaching capillary even the most remote areas (provided humans live there), with no infrastructure costs. This is possible because it leverages on existing 4G/5G communication infrastructures that are now rapidly evolving towards edge computing models. In this work we address the synergy between mobile crowdsensing and multi-access edge computing by analyzing and proposing strategies for the selection of fixed and mobile edges to support the collection of mobile crowdsensing data.

Keywords — mobile crowdsensing, multi-access edge computing, clustering, sensor data collection

1. INTRODUCTION

Mobile Crowdsensing (MCS) [1] technologies are becoming a precious source of information for the optimization and management of smart cities, due to their ability to capillary collect large amount of data of a wide range of types. The key of their success lies in the wide diffusion of personal devices (wearable, smartphones etc...) that people carry with them almost all the time, and that embed a wide range of sensors and powerful data fusion algorithms that enable an even wider range of sensing applications. In recent years, MCS has inspired research towards aspects, like the optimization of the energy consumption of the users' devices [2, 3] and of the task assignment [4] or the massive involvement of MCS volunteers [5].

However, MCS technologies do not exist alone. They are possible because Internet provides ubiquitous connectivity, and powerful servers in the cloud can manage the flow of data from billions of devices worldwide. More recently, this infrastructure is becoming hierarchical, where localized, fixed servers at the edge of the network, called in the following Fixed Multi-access Edge Computing nodes (FMECs) provide a first level of data filtering, aggregation, analysis and storage, to reduce the burden on the network core and on the remote cloud servers. This infrastructure is commonly known as Multi-access Edge Computing (MEC) [6].

A large amount of work in the last few years has focused on the development of synergies to achieve a strict integration between MCS and MEC, for MCS applications devoted to data collection for off-line, big-data analytics. These applications require a huge effort of data collection and transmission to the personal devices, while, at the same time, do not have stringent requirements in terms of latency. A conventional use of MCS and MEC technologies in this case, would require the personal devices a continuous activity of collection and data transmission through broadband wireless links even to reach the fixed MEC. However, considering that the latency requirements are rather relaxed in this case, we consider architectures in which the communication with the FMEC can also happen opportunistically by short-range radio interfaces (like Bluetooth or WiFi) when the user becomes in range with the edge itself [7]. In the effort of a further reduction of communication overhead, [8] adopted bloom filters to reduce the number of redundant data transmitted to edge nodes. Furthermore, in order to reduce the deployment and maintenance costs of FMEC [9], the users' devices themselves may be configured by the MCS platform to act temporarily as mobile edges. We define them as Mobile Multi-access Edge Computing nodes (MMECs) to stress their ability to opportunistically collect (during their roaming) data from other user devices that come into their short-range radio interfaces [10]. That allows to trade the costs of broadband communications (both in terms of energy and subscription costs) with latency in the communications.

Along this trend of research, this paper focuses on the strategies for the selection of FMEC and MEC and on their synergies. We build over our previous work [11], in which we explored the opportunity of selecting MEC based on the sociality of users. Differently than that work, however, in the present work we perform a comprehensive evaluation of several alternative strategies both for the selection of FMEC and MEC, to identify the best combination. In particular, we consider a selection of FMECs based on the mobility of the MCS users and we assess clustering algorithms for the identification of the best places for the deployment of these edges. Then, we consider a selection of MECs based on the sociality of the MCS users, by leveraging community detection and centrality measures to select the most "social" users to promote as MECs. Finally, we analyze the synergistic behavior of both kind of edges.

Mobile Edges Owners Manual

Karin Nielsen-Saines



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