Abstract

The online applications for street information have gained much popularity and wide use recently. The growing data rate of cellular services at affordable cost is supporting such applications. The Long Term Evolution (LTE) and its later version, LTE-Advanced (LTE-A) are now the most promising technologies for the cellular services. The street information, presently available online for general users, is either limited or not presented in enough user-friendly way. In this paper, we discuss a user-friendly approach for an application that provides online live view of the streets disseminating a lot of information. We analyze the potential usefulness of this application. We consider the use of LTE-A to upload video data from traffic cameras for the application. We propose a method to configure less frequent transmission of cell measurement reports in LTE-A in order to save wireless resources and power during this video data upload.
Online Live Street Watch Application Supported by LTE-A

1. Available at: http://www.dot.ca.gov/video/ (Last accessed: August 20, 2016)
5. Available at: http://www.highways.gov.uk/traffic-information/traffic-information-services/traffic-cameras/the-highways-agency-and-traffic-cameras/ (Last accessed: August 20, 2016)
6. Available at: http://www.dot.ca.gov/dist1/d1tmc/index.htm (Last accessed: August 20, 2016)

Index Terms

Computer Science
Information Sciences

Keywords
Map view, Street view, LTE-A