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Sommario/riassunto	With rapid progresses in computing technologies, the integrated and ubiquitous computing environment has been developed into Telematics services, which focus on the safety, amusement and information of vehicles. However, high mobility is an essential characteristic in vehicular communication systems, and also the primary cause of challenges. Existing solutions for wireless communication become ineffective or even infeasible in such highly dynamic network topologies. With considering the regular moving patterns of public transportation systems such as buses, trains and shuttles, this paper proposes a novel channel capacity estimation and queue management scheme for VANET. It takes geographic and time considerations into account and develops an efficient channel capacity estimation scheme. Based on the proposed channel capacity estimation scheme, the proposed scheme can well manage the queues at both RSU and vehicle mobile router (VMR). The simulation results are promising and optimistic and can validate the contributions of the proposed scheme.