The area of energy harvesting has seen various evolutions among the research community. Although various studies have been attempted to address the issues of energy harvesting in the past decade, but very few studies are focused on using RF energy from mobile phones explicitly. Hence, the prime motive of the proposed study is to showcase a mathematical model of RF energy harvesting using stochastic approach termed as SMEH i.e. Stochastic Method of Energy Harvesting. SMEH is designed analytically and evaluated using simulation based approach considering various near real time constraints of mobile devices, traffic scenario, as well as discrete state definition of the system for better analytical evaluation. The outcome of the proposed system is analyzed using probability for loss of event, queuing delay, throughput and compared with the most recent standard work in the similar direction.
SMEH: Stochastic Method of Energy Harvesting for Powering up Mobile Phones

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- RF-Energy harvesting
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