

Deterministic Scheduling of Periodic Messages for Cloud RAN

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A recent trend in mobile networks is to centralize in distant data-centers the processing units which were attached to antennas. The main challenge is to guarantee that the latency of the periodic messages sent from the antennas to their processing units and back fulfills protocol time constraints. Statistical multiplexing does not allow such a low latency. Hence, we propose to use a deterministic scheme for sending periodic messages without collisions in the network to avoid buffering.