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Analysis of RSSI of signals sampled from an operational E-Band wireless communication network

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Received Signal Strength Indicator (RSSI) refers to a measurement of the power of a received radio signal, and it is usually expressed in decibels relative to a milliwatt (dBm) from zero to -120dBm and the closer it is to zero, the stronger the signal is. This work represents an extensive analysis of RSSI of signals sampled from an operational E-Band wireless communication network. The data was gathered and analyzed during the past year (Feb. 2018-Feb. 2019). The network consists of 34 hops, covering the center of the city of Rehovot, a city located in the center of Israel. The analysis covers both dry periods which reveal periodicity phenomenon of the RSSI values and wet periods which thanks to the high sampling time resolution (30 seconds) rain cell movements can be seen in a street level scale.

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Session Classification: Posters with coffee and cake

Track Classification: Specific HyMet CML research topics (presentations on Day2, posters on Day1)