

Spatial Traffic Distributions for Cellular Networks with Time Varying Usage Intensities per Land-Use Class

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Abstract:

This document describes an approach to calculate spatial user and traffic distributions for cellular networks with time varying usage intensities per land-use class. The distributions depend on the day of the week and the time of the day (e.g. most users stay at home at night, whereas in the morning, most users are on the road). The approach reflects the coverage area (based on best server coverage or cell assignment probabilities) of the individual cells as well as the land-use classes in the respective area, in order to spatially distribute the reported traffic from performance measurement data (PM).