

# PIANIFICAZIONE ELETTROMAGNETICA IN AMBIENTE URBANO TRAMITE RAY TRACING

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## Abstract

Obiettivo del lavoro è quello di produrre un sw per la pianificazione della locazione di acces points in ambiente urbano. L'idea è quella di utilizzare il cosiddetto deterministic geometrical model (DGM), ovvero basarsi su un modello approssimato ma deterministico dell'ambiente di propagazione dove gli edifici sono schematizzati come parallelepipedi di proprietà elettromagnetiche note. Utilizzando questo modello la propagazione em è simulata attraverso una procedura di ray-tracing, eventualmente supportata dalla geometrical theory of diffraction (GTD) o la uniform theory of diffraction (UTD) per modellare il fenomeno della diffrazione.

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