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Radio Environment Maps for Military Cognitive Networks: Construction Techniques vs. Map Quality

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Abstract: In this paper we present the concept of the Radio Environment Map (REM). The architecture of REM supporting military communications systems is described. The map construction techniques based on spatial statistics and transmitter location determination and the

problem of REM quality and relevant metrics are discussed. The results of field tests taken for UHF range with sensor network are discussed and exemplary maps with different interpolation algorithms are presented. Finally, the problem of REM construction techniques vs. map quality is analyzed.

Keywords: [Cognitive radio](#), [spectrum monitoring](#), [frequency allocation](#)

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