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Radio Environment Maps for Military Cognitive Networks: Analysis of Measurement-based Maps for UHF Band

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Abstract: In this paper we discuss and compare the quality of maps created for the three test frequencies covering the UHF band and for selected interpolation techniques with the aim to select the most suitable method for Radio Environment Maps. To investigate this, we made tests in a real environment and we used the results of measurements as an

input data for the interpolation process. The test assumed various number of sensors with different deployments. The analysis of exemplary maps confirmed that Kriging and Inverse Distance Weighting techniques are promising methods of interpolation.

Keywords: Cognitive radio, radio environment map, spectrum monitoring, frequency allocation.

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