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<https://www.wil.waw.pl/wil/publikacje/baza-publicacji/r661412,Radio-Environment-Map-to-Support-Frequency-Allocation-in-Military-Communications.html>
2022-11-28, 20:14

Radio Environment Map to Support Frequency Allocation in Military Communications Systems

Tytuł

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Typ publikacji

[Referat konferencyjny](#)

Rok

2018

Data dokładna

2018

Autorzy słownie

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ISBN/ISSN

ISBN: 978-839494213-7

Informacje dodatkowe

[Referat wygłoszony na: Baltic URSI Symposium, Poznań, Poland, 14 - 17.05 2018 r.]

s. 230-233

DOI: 10.23919/URSI.2018.8406717

Abstract: This paper presents the concept of the Radio Environment Map (REM) to support Cognitive Networks and improve the efficiency of

spectrum usage. The architecture of REM and its relation to other military systems are presented. The map construction techniques based on spatial statistics and transmitter location determination are discussed. The problem of REM quality and relevant metrics is analyzed. The results of field tests taken for UHF range with sensor network are discussed and exemplary maps with different interpolation algorithms are presented.

Keywords: Cognitive radio, spectrum monitoring, frequency allocation

Powiązane publikacje

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Adres url strony

<https://ieeexplore.ieee.org/document/8406717>

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