

# Wojskowy Instytut Łączności - Państwowy Instytut Badawczy

<https://www.wil.waw.pl/wil/publikacje/baza-publicacji/r34360906832721,Frequency-re-usage-in-radio-planning-systems.html>  
2023-05-30, 02:57

## Frequency re-usage in radio planning systems

### Tytuł

Frequency re-usage in radio planning systems

### Typ publikacji

[Referat konferencyjny](#)

### Rok

2019

### Data dokładna

2019

### Autorzy słownie

### Autorzy

[Kosmowski Krzysztof](#)

### ISBN/ISSN

### Informacje dodatkowe

[Referat wygłoszony na: 10<sup>th</sup> International Scientific Conference Communication and Information Technologies (KIT 2019), 09-11.10.2019 r., Tatranske Zruby, Słowacja]

DOI: [10.23919/KIT.2019.8883504](https://doi.org/10.23919/KIT.2019.8883504)

Abstract: one of the main problems connected with radio planning is lack of free spectral resources. In the paper this issue is discussed. There are presented approaches uses in military and civilian systems. More flexible interference criterion is proposed in order to more efficient frequency usage. It base on signal to noise and interference ratio and protection ratio treated as a margin between useful signal level and interferences necessary to maintain requested bit rate. A simulation results show the tradeoff between the number of nets working on the same frequency, distances between them, its areas and MANET modes.

Keywords: frequency planning, frequency re-usage, protection ratio.

## Powiązane publikacje

-

### Adres url strony

<https://ieeexplore.ieee.org/document/8883504>

### Plik

