

TCCN SIG on Cognitive Radio for 5G

Sync Meeting

21-May-2018

Overview

- The SIG has published a White Paper on „Novel Spectrum Usage Paradigms for 5G“
- The SIG has organized several remote workhops on key upcoming topics
- Currently, the activity level is low but new topics are upcoming.

Information - White Paper: „Novel Spectrum Usage Paradigms for 5G“

- Previous activities of the TCCN SIG for 5G lead to the publication of a White Paper:
- A 1st White Paper was issued following the Call-for-Contributions in the 1st Remote Workshop of the SIG.
- The White Paper is publicly available on the TCCN Web Site (see right hand side)



Three remote Workshops had been organized

- 1st remote workshop: New Spectrum Usage paradigms for 5G
 - The discussion was followed by the creation of a White Paper
- 2nd remote workshop: Millimeter-wave Access for 5G and Context Aware Cell Association to Enhance the Performance by Kei Sakaguchi, Osaka University
- 3rd remote workshop: Next generation Spectrum Sharing approaches (presentation: „Spectrum Sharing for Capacity and Business Growth“ by INTEL)

Current Status

- Currently, the activity level of the SIG is low. The early stage of 5G development did not show a strong requirement for Cognitive Features.
- Currently, the situation is changing. Fundamental coexistence issues are coming up:
 - CBRS/LSA based spectrum sharing requires Cognitive Framework for efficient sharing
 - Vehicular Communications requires Cognitive Information for coexistence of DSRC/LTE/Railroad
 - Coexistence between LTE (LAA) and WiFi in 5 GHz
 - ETSI TC RRS standardization is developing a Cognitive Engine to address corresponding requirements

Call for Interest

- Please make your interests in the space of coexistence (or other topics) known.
- There is the possibility to collaborate on research, corresponding publications, standardization, prototyping, etc.

We are very much looking forward to a
fruitful cooperation

