

Spectrum Sharing using Geolocation Databases

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Tutorial

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Over the past few years there has been a significant investment in the concept of a database for managing the sharing of TV White Space, the unused portion of the UHF spectrum used for TV broadcast. The FCC has completed a rule making process and systems are now operational. The UK and Canada are in the process of finalizing rules for similar sharing schemes.

With the recent publication of the PCAST report on Spectrum Sharing the scope of geolocation databases has expanded significantly. This workshop will review the latest activities of geolocation databases in TV white space including technology, deployments, regulation and standards efforts. It will then offer a strategy to expand the geolocation database of TV White Space into other spectrum bands, focusing on the reuse of TV white Space technology and the new challenges. The tutorial will wrap up with a discussion on areas for further study and innovation.

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