

TV White Space Standardization Activities: From the Regulation, Technology, Application and Certification Perspective

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TV white space communications is a timely technology providing solutions to the growing number of bandwidth-hungry applications in the spectrum-scarce environment. The emerging of TV white space communications involves beyond just the technological development. In particular, standardizations, regulations, potential applications and product certification are essential elements playing significant roles in defining the entire industry. The interaction among these elements forms an industrial ecosystem that fuels the engine towards revolutionizing user experience on broadband and seamless connectivity through dynamic spectrum access.

This tutorial covers the panoramic landscape of the international standardization activities related to wireless communication systems operating in the TV white space. The latest development in these standardization activities from the perspectives of regulations, technical specifications, application scenarios and product certification program are presented. Specifically, this tutorial intends to provide insights of the power dynamics in standardization and regulatory activities, the realistic modeling of practical use case applications, the certification programs for developed products, and ultimately, their respective places in the big picture and their relationship with each other.

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