Cognitive Radio: Interoperability Through Waveform Reconfiguration

Leszek Lechowicz, Mieczyslaw M. Kokar

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In the span of a century, radio technology advanced from spark transmitters, through analog radios based on vacuum tubes to solid state radios to finally software defined radios where most of the transmit and receive functionalities are implemented as programs running on specialized microprocessors. In recent years, cognitive radio emerged, which combines a software-defined radio with an intelligent agent, and promises to deliver a new level of functionality.

This new resource addresses cognitive radio design from the perspective of interoperability with an emphasis on waveform configuration for increased flexibility and enhanced performance. The book provides readers with an extensive discussion of the concept of interoperability, as well as discusses some of the languages that could potentially be used for exchanging descriptions of waveforms.

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