Software Defined Radios

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Chapter 1 Serving many mobile users in various scenarios: Radios to go smart(er) and Cognitive. This chapter will bring the rationale for the book, situate it in today s wireless scene and future evolutions, and introduce its structure.- Chapter 2 Flexible Engines ready to ride 2. A concise overview of the state of the art of Software Defined Radios will be given, with an emphasis on the offered scalability, opening up opportunities for smart operation- Chapter 3 Standards ruling smart radios today. Relevant recent standards will be discussed, specifically focusing on MAC layer and control possibilities. - Chapter 4 Technologies and policies opening up to smart(er) and cognitive for the future. The expected and desired technologies and policies will be highlighted.- Chapter 5 Managing flexibility: anticipative design, preparing for a smooth ride. This chapter will introduce the generic design concepts, including a design-time flow , and a run-time operation .- Chapter 6 Going smart: energy and quality of service management. Optimal resource allocation solutions are introduced, offering the desired QoS while minimizing energy consumption. The specific case of WLAN is discussed. - Chapter 7 Communication in the ISM-band: a suitable case. First appropriate models for (large) IEEE802.11 networks are introduced, a distributed optimized control is proposed, and further co-existence with ZIgbee is handled.- Chapter 8 Towards open spectrum access: smart(er) and cognitive operation needed. Starting from opportunistic spectrum sharing, different scenarios will be discussed and appropriate control solutions are proposed. - Chapter 9 Conclusions EAN/ISBN : 9789400712782 Publisher(s): Springer, Berlin, Springer Science & Business Media Discussed keywords: Software Defined Radio Format: ePub/PDF Author(s): Pollin, Sofie - Timmers, Michael - Van der Perre, Liesbet

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