



Prototyping Software Defined Radio Systems with LabVIEW FPGA

Technical session

September, 29, 2017, Hotel Sokos Olympia Garden, Bataisky pereulok, 3A, St. Petersburg, Russia

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Description

The hands-on seminar aimed to teach ideas of Software Defined Radio systems and National Instruments rapid prototyping platform. It is designed for engineers developing and using modern wireless telecommunications, spectrum monitoring, RADAR, and SIGINT systems.

Participants become familiar with SDR systems for solving wide range of problems, understand rapid prototyping with NI's integrated software and hardware instruments such as LabVIEW, LabVIEW FPGA, NI USRP RIO, NI FlexRIO.

The seminar contains detailed overview of steps and tools to develop your own SDR system based on reconfigurable FPGA-based NI USRP RIO hardware, ranging from floating-point algorithm design to FPGA implementation with LabVIEW graphical system design software.

Duration: 2 hours

Keywords: Software-Defined Radio, SDR, wireless communication prototyping, OFDM, FPGA, floating-point to fixed point conversion, LabVIEW, LabVIEW FPGA.

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