

Reconfigurable Instrumentation Technologies, Architectures and Trends

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Abstract

Reconfigurability is liberating radio-based instrumentation devices from chronic dependency on hard-wired characteristics of the radio front end. Today the evolution toward practical “software defined” instrumentation is accelerating through a combination of approaches. This evolution is challenging analog, digital and software designers and the associated product development process. The goal of this paper is to give a short overview of the latest technologies, architectures and trends in this field.