

# Applied scientific research with industrial impact

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## **Abstract**

Most recent development trend of intelligent measurement technology is transferred from functionality-defined-by-manufacturer into functionality-defined-by-user. This situation is made possible by new adaptable programmable methods and technologies of virtual instrumentation and programmable logic devices (functional personalization). Scientific research and development of Laboratory for Stochastic Signals and Processes performs in the field of high-speed optoelectronics and programmable and adaptable electronics have been applied to solve some problems coming from the knowledge based industrial requirements. We will shortly report our experience from these projects.