

The technology for the development of optical fiber sensors, optical systems and networks is focused on research and development in the field of fiber optic sensor systems and networks. The laboratory is equipped with the most modern measuring technology, which allows the measurement of electrical and optical signals and explores the possibilities of incorporating optical sensors within the framework specific applications of sensory networks in terms of transport, specifically geotechnics. Another area is the investigation of properties of optical fibers in view of statistical changes in the optical signal caused by stochastic processes such as PMD. Within the laboratory, there is also a test optical network with a total length of more than 900 km with the possibility of its reconfiguration.

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