

Special Issue

Optical Diagnostics and Monitoring of Human Diseases

Message from the Guest Editors

Optical techniques and laser diagnostics are becoming integral elements in engineering and medical instrumentation. Written by leading experts from academic groups and laboratories, this Special Issue provides an international perspective on both existing applications and cutting-edge research. With a focus on advanced biophotonics applications, the Special Issue discusses the application of techniques such as tissue and liquid optical biopsy, breathomics, laser Doppler velocimetry, particle image velocimetry, planar laser-induced fluorescence and machine learning. In addition, the Special Issue explores laser diagnostic techniques used in the biomedical field and reviews novel research on the use of fiber-optic sensor techniques for structural integrity and physical condition monitoring. Please note this special issue is prepared following the conference Saratov Fall Meeting 2022 (SFM'22).

<https://sfmconference.org/>

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