Special Issue

Optical Technologies for Medical Diagnostics

Message from the Guest Editor

Medical diagnostics is a critical element of effective medical treatment. Optical technology could be used to analysis and monitor biological analytes, such as biomolecules (e.g., DNA, RNA, protein, and lipid), biological cells (e.g., virus, cells, and bacteria), skin characteristics, and in imaging of organs or for biopsies using scattering, absorption reflection, or fluorescent light. Diffuse optical tomography is a complex method for deep imaging of tissues. In this method, information in the spatial and temporal domains of scattered photons is used to noninvasively image by massive computation. It can be stated that optical technology offers the possibility of diagnostic tools that are nonhazardous for medical applications with increased sensitivity, specificity, and reliability. For more details, please visit here.

Guest Editor

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