Interferometric detection for nanoptics and bio-sensing

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Interferometry is widely used in metrology and experimental research because of the exceptional sensitivity that interferometric devices can offer for a relatively wide range of applications. This conference will focus on advanced interferometric sensing systems in nanoptics and biosensing, where optical components can often be relatively simple and inexpensive yet effective. The devices presented cover holographic microscopy, near-field optical microscopy and implementation in ellipsometry. The applications discussed cover:

(1) - the measurement of strain fields
(2) - optical mode analysis in integrated optics devices
(3) - ellipsometric detection and bio-detection.