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Abstract: The proceedings contain 125 papers. The topics discussed include: ink layer thickness detection based on laser triangulation technology; qualitative and quantitative analysis of mixtures using terahertz spectroscopy combined with machine learning; wavefront phase reconstruction of plenoptic sensor based on centroid method; frequency-resolved optical mode decomposition of multimode quantum fields; signal enhancement and mechanism analysis of pulse shaped femtosecond laser-induced breakdown spectroscopy of fused silica; research on hyperspectral polarization detection for unexploded ordnance target identification; thick-mask optimization based on particle swarm optimization algorithm; elliptical polarization characterization of scattered light in dark field defect inspection technology; and micro-angle attitude measurement technology and research progress based on quantum weak value measurement.

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