
Symposium (Oral) | Symposium | Novel optical metrologies based on advanced photonics

[5p-A402-1~6]Novel optical metrologies based on advanced photonics

Takashige Omatsu(Chiba Univ.), Sunao Kurimura(NIMS)

Tue. Sep 5, 2017 1:00 PM - 4:00 PM A402 (402+403)

△：奨励賞エントリー

▲：英語発表

▼：奨励賞エントリーかつ英語発表

空欄：どちらもなし

1:30 PM - 2:00 PM

[5p-A402-2]High-resolution cross-sectional imaging using optical interferometer ~Optical coherence tomography~

○Norihiro Nishizawa¹, Hiroyuki Kawagoe¹, Masahito Yamanaka¹ (1.Nagoya Univ.)

Keywords:bioimaging, Optical interference measurement, Biomedical optics

Optical coherence tomography, which we call as OCT, is an emerging technology to demonstrate non-invasive, non-contact, cross-sectional imaging of inside structure of biological samples with micro-meter resolution, using broadband light source and optical interferometer. Recently, thanks to the advance of light source and measurement technique, the improvements of imaging speed, spatial resolution, penetration depth, and functionality have been advanced. In this talk, the recent advance of these OCT technologies will be reviewed based on the author's achievements.