Symposium (Oral) | Symposium | State-of-the-art Scattering and Fluctuation Computational Imaging

[10p-N201-1~9]State-of-the-art Scattering and Fluctuation Computational Imaging

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Fri. Sep 10, 2021 1:30 PM - 4:55 PM N201 (Oral)

△：Presentation by Applicant for JSAP Young Scientists Presentation Award

▲：English Presentation

▼：Both of Above

No Mark：None of Above

3:20 PM - 3:50 PM

[10p-N201-5]Single Pixel Imaging for Scattering Measurement Applications

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Keywords:Single pixel imaging, Ghost imaging, Machine learning

Single-pixel imaging is not only a simple optical system with single-pixel detector, but also a highly sensitive imaging system with statistical processing. In particular, single-pixel imaging is effective in scattering media, where the target signal is diffused. Furthermore, high resolution can be achieved by combining with machine learning. In this paper, application from the principle to the scattering measurement and super-resolution by introducing machine learning will be discussed.