

73rd RAP Seminar

The 73rd Seminar on RIKEN Center for Advanced Photonics

Language: Japanese

- ONLINE Seminar -

Date: **October 15(Fri) 16:00 - 17:00, 2021**

Title: **Innovation of Super-resolution Imaging
by Measurement Informatics**

計測インフォマティクスによる超解像イメージングの革新

Speaker: **Prof. Takashi WASHIO**

**The Institute of Scientific and Industrial Research
Osaka University**

鷺尾 隆

大阪大学 産業科学研究所 教授

In recent years, along the rapid development of advanced measurement science and information science, the chances to develop new advanced measurement technologies by fusing these sciences are increasing. We named this borderline research field as "Measurement Informatics," and are currently working on many research topics in this field. In this talk, we will first describe the outline of measurement informatics, and then describe its example research issues. Moreover, we introduce our recent research outcomes: a semi-sparse estimation for super-resolution images, an ultra-high-speed super-resolution imaging, and a high performance measurement noise reduction. These have been achieved by introducing the measurement informatics into the field of super-resolution imaging research. Finally, we argue the prospect of the measurement informatics.