

Symposium (Oral) | Symposium | New developments in computing technique based on optical neural network

[12p-B414-1~7]New developments in computing technique based on optical neural network

Yusuke Ogura(Osaka Univ.), Takahiro Nishimura(Osaka Univ.)

Thu. Mar 12, 2020 1:00 PM - 4:45 PM B414 (2-414)

△ : Presentation by Applicant for JSAP Young Scientists Presentation Award

▲ : English Presentation

▼ : Both of Above

No Mark : None of Above

2:30 PM - 3:00 PM

[12p-B414-4]Mathematical aspects and device implementation of reservoir computing

OGouhei Tanaka¹ (1.Univ. of Tokyo)

Keywords:Reservoir computing, Neural networks, Temporal information processing

Machine learning based on neural networks is a powerful technology for realization of artificial intelligence. Reservoir computing is one of the frameworks for machine learning methods capable of high-speed learning. In this presentation, I will first explain the concept and mathematical fundamentals of reservoir computing. Then I will introduce some studies on implementation of reservoir computing devices.