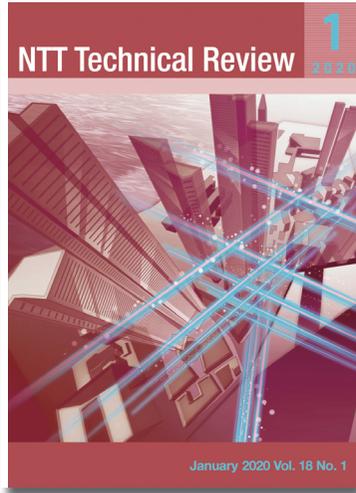


<https://www.ntt-review.jp/archive/2020/202001.html>



View from the Top

- ▶ Ichiro Uehara, Senior Executive Vice President, NTT WEST

Front-line Researchers

- ▶ Mitsuaki Akiyama, Senior Distinguished Researcher, NTT Secure Platform Laboratories

Feature Articles

Phyigital-data-centric Computing for Data-driven Innovation in the Physical World

- ▶ Phyigital-data-centric Computing
- ▶ Carrier Cloud for Deep Learning to Enable Highly Efficient Inference Processing—R&D Technologies as a Source of Competitive Power in Company Activities
- ▶ Introduction to Axispot™, Real-time Spatio-temporal Data-management System, and Its High-speed Spatiotemporal Data-search Technology
- ▶ iChie: Speeding up Data Collaboration between Companies
- ▶ LASOLV™ Computing System: Hybrid Platform for Efficient Combinatorial Optimization
- ▶ A Method for High-speed Transaction Processing on Many-core CPU

Global Standardization Activities

- ▶ AI for Good Global Summit 2019

View from the Top

Ichiro Uehara, Senior Executive Vice President, NTT WEST

▼Overview

Information and communication technology related to data utilization, such as Internet of Things, big data, and artificial intelligence, is key to Japan's sustainable development. With regard to contributing to the local economy, solving regional problems, and improving the attractiveness of the region, how is the knowledge of NTT WEST—which has a wide variety of markets—used? We asked Ichiro Uehara, senior executive vice president, NTT WEST, about the company's innovative initiatives and prospects in various locations in western Japan.



Front-line Researchers

Mitsuaki Akiyama, Senior Distinguished Researcher, NTT Secure Platform Laboratories

▼Overview

People and businesses are becoming more dependent on cyberspace. Along with the benefits that come with such dependence, the risk of being exposed to threats is increasing; thus, a safe and secure information and communication technology environment is necessary. In 2018, Japan established a new strategy with the aim of building a *cybersecurity ecosystem*. We asked Mitsuaki Akiyama, a senior distinguished researcher at NTT Secure Platform Laboratories, what kind of research and development is required to maintain the safety and security of cyberspace.



Feature Articles

Phyigital-data-centric Computing for Data-driven Innovation in the Physical World

Phyigital-data-centric Computing

▼Abstract

The artificial intelligence (AI)/Internet of Things initiatives being undertaken in many countries will lead to a new computing paradigm called *phyigital-data-centric computing*, which will create data servers near the physical world and their clients on the cloud. NTT Software Innovation Center is developing technologies necessary for value-generating, cost-effective, and operable phyigital-data-centric computing. In particular, it is conducting research and development in three focus areas, 1) AI computing infrastructure, 2) data hub/pipelines, and 3) advanced analytics.

