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Front-line Researchers

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Feature Articles

Network Technology for Digital Society of the Future—Toward Advanced, Smart, and **Environmentally Friendly Operations**

- Technology for Smart Coordination of ICT/Network Resources and Services
- Failure Point Estimation Using Rule-based Learning
- Deep Learning Based Anomaly Detection Technology for ICT Services—DeAnoS: Deep Anomaly Surveillance
- Automatic Generation of Recovery-command Sequences
- Failure Localization in Optical Transmission Networks
- Business Navigation Technology
- Toward the Realization of Eco-friendly Telecom Centers

Global Standardization Activities

■ Technical Trends in ISO/IFC Joint Technical Committee 1

Short Reports

- Orange and NTT Sign Strategic R&D Framework Agreement to Accelerate Digital and Network Transformation in 5G, AI, IoT Cybersecurity and Beyond
- Achievements of Government Sponsored Contract Research on Autonomous Mobility Systems Aimed at Developing an Autonomous Mobility Society in the Future
- First Proof-of-principle Experiment of Quantum Repeaters with All Photonics—Major Step towards a Quantum Internet as the Holy Grail of Information-processing Networks
- Development of Novel Material Sr₃OsO₆ with the Highest Ferromagnetic Transition Temperature for Insulators—Breaking the World Record for the First Time in 88 years
- NTT and Dimension Data Sign Memorandum of Understanding with Deakin University and Western Sydney University to Accelerate Innovation

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▼Overview

Advances in information and communication technology (ICT) and artificial intelligence are transforming all areas of society. Brain science is no exception to this transformation, and rapid progress in this area is being made along with advances in measurement technology and analysis methods. Moreover, the subjects of brain research have spread to real-world problems. We asked NTT Fellow Makio Kashino of NTT Communication Science Laboratories what the objective is of the research termed "ICT × brain science" and how it will change our lives.



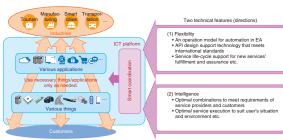
Feature Articles

Network Technology for Digital Society of the Future—Toward Advanced, **Smart, and Environmentally Friendly Operations**

Technology for Smart Coordination of ICT/Network Resources and Services

▼Abstract -

In the near future, things and applications will be connected across companies and industries to help people enjoy new innovative services. This article introduces technology for coordinating ICT (information and communication technology)/network resources and services to help us prepare things and applications only as needed.



Global Standardization Activities

Technical Trends in ISO/IEC Joint Technical Committee 1

▼Abstract

The International Organization for Standardization (ISO)/International Electrotechnical Commission (IEC) Joint Technical Committee (JTC) 1 is an organization established by the ISO and IEC that is responsible for international standardization in the field of information technology. This article introduces the emerging technologies being addressed by the Advisory Group, which were identified in resolutions from two recent ISO/IEC JTC 1 Plenaries.