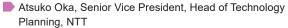
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NTT Technical Review 2020 View from the Top



Front-line Researchers

Tessei Kobayashi, Senior Distinguished Researcher, NTT Communication Science Laboratories

Feature Articles

NTT R&D Forum 2019 Special Sessions

- A Digital World of Humans and Society—Digital Twin Computing
- Innovative Network for 2030 (Beyond 2020)
- Basic Technologies toward the All-Photonics Network
- Upgrade Reality—Reality in IOWN Concept

Feature Articles ICT R&D Initiatives for a Smart World that Harmonizes People and Environments

- R&D Initiatives to Make the Most of Human Abilities by Amplifying Human Intelligence to Achieve a Smart World that Harmonizes People and Environments
- Natural Communication Technologies Providing Information through Natural Exchanges that Do Not Interfere with Human Activities
- Ambient Assistance Technology Supporting Human Behavior by Understanding the Relationship between People and Environments
- User Experience Method for Deeper Understanding People's Values to Design and Change Their Behavior
- Sports Social View—Method of Inclusive Sports Appreciation Extracting and Sharing the Essence of Sports through the Sense of Touch

Regular Articles

- Field Trials of Open and Disaggregated Transponder in Optical and IP Networking
- Does Exploratory Hand Movement Provide Information on Tactile Sensations?

Global Standardization Activities

Activities at W3C Technical Plenary and Advisory Committee Meetings Week (TPAC) 2019 in Fukuoka

View from the Top

Atsuko Oka, Senior Vice President, Head of Technology Planning, NTT

VOverview

The NTT Group is committed to solving social issues, and its initiatives and responsiveness have been highly evaluated. The Group joined the international environmental protection initiatives EP100 and EV100 as their first telecommunications carrier member. It has also been selected as a global top innovator for the eighth consecutive year. We asked Atsuko Oka, NTT senior vice president, head of Technology Planning, for her 2020 outlook for the NTT Group, which strives to provide high-quality, highly reliable services for safe and secure operation of information and communication technology infrastructure.



Feature Articles

NTT R&D Forum 2019 Special Sessions

A Digital World of Humans and Society—Digital Twin Computing

▼Abstract

This article introduces a lecture presented by Ryutaro Kawamura, senior vice president and head of NTT Service Innovation Laboratory Group, at a special session of NTT R&D Forum 2019 held on November 14 and 15, 2019. The lecture described the latest research activities at the laboratory group, focusing on NTT's vision of Innovative Optical and Wireless Network or IOWN.



Feature Articles

ICT R&D Initiatives for a Smart World that Harmonizes People and Environments

R&D Initiatives to Make the Most of Human Abilities by Amplifying Human Intelligence to Achieve a Smart World that Harmonizes People and Environments

Abstract -

Information and communication technology (ICT) will soon be necessary to make the most of and supplement people's abilities and support their activities by harmonizing people and environments through natural interactions that seamlessly blend with their activities. This article introduces the ICT research and development initiatives at NTT Service Evolution Laboratories to achieve a smart world that harmonizes people and environments.

