

<https://www.ntt-review.jp/archive/2020/202012.html>

View from the Top

- ▶ Hidemune Sugahara, Senior Executive Vice President, NTT Communications

Front-line Researchers

- ▶ Hideki Yamamoto, Senior Distinguished Researcher, NTT Basic Research Laboratories

Feature Articles

Global Business Initiatives

- ▶ NTT's Global Business Initiatives
- ▶ A New Training System Using VR Will Rev Up the Baseball Industry Like Never Before
- ▶ Navigating Today's Computing Model Landscape
- ▶ NTT Pro Cycling: Data-driven Innovation in Action

Feature Articles

Media-processing Technologies for Artificial Intelligence to Support and Substitute Human Activities

- ▶ Researching AI Technologies to Support and Substitute Human Activities
- ▶ Media-processing Technologies for Ultimate Private Sound Space
- ▶ Saxe: Text-to-Speech Synthesis Engine Applicable to Diverse Use Cases
- ▶ Speech Recognition Technologies for Creating Knowledge Resources from Communications Knowledge and Language-processing Technology that Supports and Substitutes Customer-contact Work
- ▶ Spatial-information Processing Technology for Establishing a 4D Digital Platform

Feature Articles

NTT DOCOMO 5G Initiatives for Solving Social Problems and Achieving Social Transformation

- ▶ History of 5G Initiatives
- ▶ NTT DOCOMO Contributions to 5G Standardization
- ▶ 5G Network

Regular Articles

- ▶ Soft Error Countermeasure for 10G-EPON ONU

Global Standardization Activities

- ▶ Trends in Standardization of Mapping and Multiplexing Technologies for Optical Transport Networks

Practical Field Information about Telecommunication Technologies

- ▶ Manual for Assisting with Troubleshooting in PHS Digital Cordless Telephone Systems

View from the Top

Hidemune Sugahara, Senior Executive Vice President, NTT Communications

▼Overview

NTT Communications, which recently celebrated its 20th anniversary, has reorganized with the aim of providing a safe and secure platform for data utilization to customers around the world. The company is striving to contribute to building a data-driven society on the basis of the concept called 3S (simple, smart, speedy) + S (secure) while developing technology and systems to implement the Innovative Optical and Wireless Network (IOWN). We asked Hidemune Sugahara, senior executive vice president of NTT Communications, about his enthusiasm and philosophy as a member of senior management.



Front-line Researchers

Hideki Yamamoto, Senior Distinguished Researcher, NTT Basic Research Laboratories

▼Overview

Hideki Yamamoto, Senior Distinguished Researcher at NTT Basic Research Laboratories, and his co-researchers are creating novel materials nonexistent in the natural world and elucidating the property of such materials. They apply NTT's unique and state-of-the-art apparatus and technologies to stack the elements making up a material through control of their reaction at the atomic and molecular levels. We asked Dr. Yamamoto about his current research activities and the mindset he adopts as a researcher.



Feature Articles

Global Business Initiatives

NTT's Global Business Initiatives

▼Abstract

The NTT Group positioned its global business as one of its pillars of growth in the NTT Medium-Term Management Strategy announced in 2018. After active pursuit of international mergers and acquisitions, approximately one-fourth of the NTT Group's workforce (135,000 people) now works outside Japan, and the global business has grown in importance.

Feature Articles

Media-processing Technologies for Artificial Intelligence to Support and Substitute Human Activities

Researching AI Technologies to Support and Substitute Human Activities

▼Abstract

The coming of digital transformation has been gaining interest, and its development seems to be accelerating during the COVID-19 pandemic. Competition in artificial intelligence (AI) technologies is also intensifying, and platformers are accumulating massive amounts of data as learning data. Amid these trends, NTT Media Intelligence Laboratories is promoting the research and development (R&D) of AI technologies to support and substitute human activities by taking advantage of the technologies and expertise that it has cultivated. This article introduces this R&D initiative.