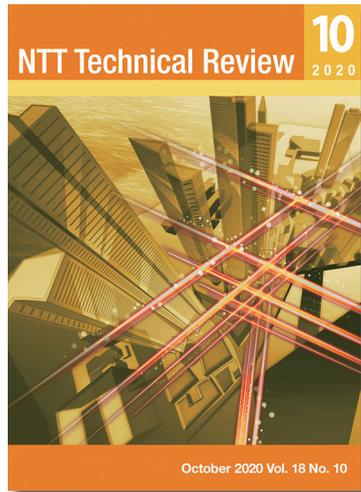


<https://www.ntt-review.jp/archive/2020/202010.html>



## View from the Top

- ▶ Masaaki Moribayash, Senior Executive Vice President, NTT Ltd.

## Front-line Researchers

- ▶ Hirokazu Kameoka, Senior Distinguished Researcher, NTT Communication Science Laboratories

## Feature Articles

### Photonics-electronics Convergence Technology to Achieve All-Photonic Network

- ▶ All-Photonic Network and Photonics-electronics Convergence Technologies as a Vision of the Future
- ▶ Ultracompact Silicon Photonics Coherent Optical Subassembly for Ultrahigh-capacity Optical Communication
- ▶ Device Technology for Short-range Optical Interconnections with High Density and Low Power Consumption
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## View from the Top

### Masaaki Moribayash, Senior Executive Vice President, NTT Ltd.

#### ▼ Overview

As a world-leading global technology services provider, NTT Ltd., which is headquartered in London, UK, employs approximately 40,000 people in more than 70 countries and territories. While the global economy is being affected by the novel-coronavirus pandemic, the company is using technology to make a positive impact on business and society. We asked its senior executive vice president, Masaaki Moribayashi, about the company's business strategy and workplace culture that emphasizes diversity.



## Front-line Researchers

### Hirokazu Kameoka, Senior Distinguished Researcher, NTT Communication Science Laboratories

#### ▼ Overview

According to a survey on clumsiness while speaking of about 1800 undergraduate and graduate students of Japanese universities, approximately 30% answered that they have, or have to some extent, a problem with their pronunciation in everyday conversation, and those who were aware of the difficulty in pronunciation tended to feel that they are often asked to repeat what they said. Hirokazu Kameoka, a senior distinguished researcher at NTT Communication Science Laboratories, aims to eliminate various obstacles in communication by analyzing, synthesizing, and converting voices and speaking styles. We asked him about his current research and his attitude as a researcher.



## Feature Articles

### Photonics-electronics Convergence Technology to Achieve All-Photonic Network

#### All-Photonic Network and Photonics-electronics Convergence Technologies as a Vision of the Future

#### ▼ Abstract

This article presents the Innovative Optical and Wireless Network (IOWN) proposed by NTT and the All-Photonic Network—a key element of IOWN—as a vision of the future along with the technologies for achieving it. It also introduces photonics-electronics convergence technologies as the key to achieving an ultralow-latency and ultralow-power consumption of the All-Photonic Network and its roadmap.

