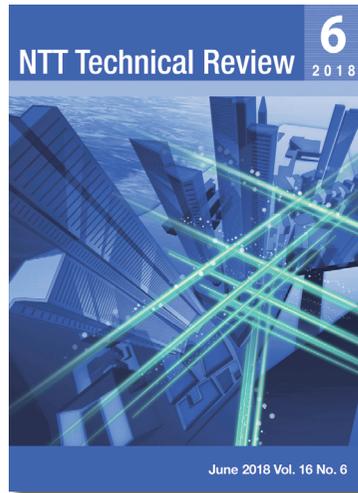


<https://www.ntt-review.jp/archive/2018/201806.html>



Feature Articles Creating a Flexible and Smart Network as a New Social Infrastructure

- ▶ Future Network Technologies for the 5G/loT Era
- ▶ Leveraging General-purpose Technology and Open Community Activities
- ▶ Creating New Value by Leveraging Network-AI Technology in Service Operations
- ▶ Initiatives toward Access Network Technology for the Beyond-5G Era
- ▶ Research toward Realizing a Future Network Architecture
- ▶ MOOSIA: Technology for One-stop Operation
- ▶ Global Collaboration Initiatives Revolutionizing Research and Development of Network Technologies

Regular Articles

- ▶ Traffic Prediction and Quality Evaluation for Improving Communication Quality during Major Events
- ▶ Investigating Countermeasures against High-altitude Electromagnetic Pulse (HEMP)

Global Standardization Activities

- ▶ Automotive Edge Computing Consortium—a Global Effort to Develop a Connected Car Platform

Practical Field Information about Telecommunication Technologies

- ▶ Investigation of Unintentional One-ring Outgoing Calls

Short Reports

- ▶ Successful Joint Test of Next-generation Onboard loT Platform

Feature Articles Creating a Flexible and Smart Network as a New Social Infrastructure

Future Network Technologies for the 5G/loT Era

▼Abstract

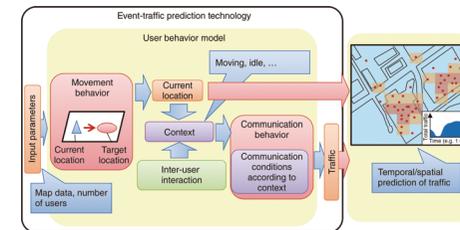
The social environment is changing rapidly, and with these changes, society is coming to have great expectations for the future network. NTT is researching and developing technologies for achieving a flexible and smart network as a new social infrastructure that will be able to meet a wide variety of needs. This article describes the direction of research and development at NTT with an eye to 2020 and beyond centered on the three pillars of 5G/loT (fifth-generation mobile communications/Internet of Things), Network-AI (NTT's artificial intelligence applied to networks), and open source software, while providing an overview of activities done in collaboration with NTT Group companies.

Regular Articles

Traffic Prediction and Quality Evaluation for Improving Communication Quality during Major Events

▼Abstract

NTT Network Technology Laboratories is studying event-traffic prediction and quality evaluation for preventing deterioration in communication quality due to a sudden increase in traffic during major events. In this study, we model user movement and communication behavior and predict traffic volumes and communication quality on the day of an event by prior simulation.



Investigating Countermeasures against High-altitude Electromagnetic Pulse (HEMP)

▼Abstract

The threat of attack by a nuclear explosion triggering a high-altitude electromagnetic pulse (HEMP) has become an actuality. HEMP has the capacity to destroy a wide range of electric and electronic equipment. We report here on initiatives being studied to reduce the damage caused by a breakdown of communications and to restore communications promptly.

