November 2015 Vol. 13 No. 11
NTT Technical Review 11 2015
https://www.ntt-review.jp/archive/2015/201511.html

Front-line Researchers

Kunio Kashino, Senior Distinguished Researcher, NTT Communication Science Laboratories

▼Overview

As the volume of music, photographs, and video on the Internet continues to increase, the need for accurate and high-speed searching of media information is growing rapidly. We asked Dr. Kunio Kashino, Senior Distinguished Researcher at NTT Communication Science Laboratories, to tell us about the current state of research on media search in today's society and his thoughts on how researchers should view and approach their work.

Feature Articles
Communication Science as a Compass for the Future

Embracing Information Science and Technology—Decoding, Exploring, and Designing the World

▼Abstract

The era in which human beings are confronted with machines (computers or artificial intelligence) as disparate elements is coming to an end. From here on, we will embrace information science and technology as part of ourselves. This will necessitate the ability to decode, explore, and design the entire world, including us human beings. While bearing in mind the drastic changes in the information environment that we have experienced in the first fifteen years of the twenty-first century, we must think about what should make up the basic research that will form the compass of the future as we envision the year 2030, fifteen years from now.

Regular Articles

Microscope Integrated with Optical Connector Cleaner for Cleaning and Inspecting Optical Fiber End-faces in a Single Operation

▼Abstract

The end-faces of optical fibers must be kept clean because unclean end-faces can cause communication errors. When optical fibers are to be connected to each other, their end-faces are cleaned and inspected using two different devices in two separate time-consuming steps. First, a fiber cleaner is used to clean each end-face, and then a microscope is used to inspect each end-face. To simplify this process, we developed a device that integrates the cleaner and the microscope into a single tool, making it possible to perform both the cleaning and inspection in a single operation without having to change tools.