RTRI Receives 35th Radio Achievement Award

The Railway Technical Research Institute (RTRI) won the 35th Radio Achievement Award bestowed by the Minister of Internal Affairs and Communications jointly with Hitachi Kokusai Electric Inc., Waseda University, the National Institute of Information and Communications Technology, and the National Institute of Maritime, Port and Aviation Technology.

The Radio Achievement Award is presented annually by the Minister of Internal Affairs and Communications and the Chairman of the Board of the Association of Radio Industries and Businesses (ARIB) to individuals or organizations that have made innovative and concrete achievements in investigation, research, and development for effective use of radio waves, or those who have made a significant contribution to the practical application of new radio wave utilization systems that make effective use of radio waves.

The award ceremony was held on June 25 at the Hotel New Otani Tokyo in Chiyoda Ward, Tokyo, and was attended by Dr. Kazuki Nakamura, Head of the Telecommunications and Networking Laboratory, Information and Communication Technology Division of RTRI.

35th Radio Achievement Award
bestowed by the Minister of Internal Affairs and Communications
for the "Development and Demonstration of
90 GHz Band Runway Surface Foreign Object Detection System"

Outline of Award-Winning Works

RTRI developed a 90 GHz radar system for detecting foreign objects on airport runway surfaces to ensure safety during aircraft takeoffs and landings, and demonstrated its expected performance in a real environment.* In the field of international standardization, RTRI promoted the standardization of this system in ITU-R WP5B, and also established an industry-academia-government collaboration scheme and a demonstration experiment system between Japan and Malaysia for social implementation of the system. These efforts have helped to rapidly move to practical application after the completion of standardization, which contributed greatly to the effective use of radio waves (Source: Association of Radio Industries and Businesses).

***RTRI applied this system to areas other than runways, e.g., monitoring systems in railway tracks where monitoring surfaces are not flat, and contributed to the development of the equipment for such systems.**

35th Radio Achievement Award Winners
(Second from Left: Dr. Kazuki Nakamura)