Skills Training with VR

We have developed a VR training system that allows athletes to experience and train in sports within a virtual environment. Generated based on omni-directional images and sensors, scenes in which a ball is being thrown are reproduced as if you are the batter in a game. With a VR head-mounted display, skills such as visual discernment of movement and physical performance can be perfected. The technology can be applied to many fields.

Contact Center Quality Advanced with AI

We are leveraging AI technology to improve the efficiency and quality of service at call centers. NTT Laboratory’s “Semantic Understanding Query” and speech recognition technology (which has achieved the world’s best performance in noisy public areas) are being utilized. As a result, the optimization of real-time text conversion of customers’ voice, automatic proposal of candidate responses, and automatic record of response histories have been achieved.

ABOUT NTT DATA

NTT DATA is a leading IT services provider and global innovation partner headquartered in Tokyo, with business operations in over 40 countries. Our emphasis is on long-term commitment, combining global reach with local intimacy to provide premier professional services varying from consulting and systems development to outsourcing. For more information, visit www.nttdata.com.
The following eight technology trends are expected to have the biggest influence in the coming years.

**Power of the Individual**
The growing influence of individuals and startup businesses are transforming established systems in societies and industries. This is encouraging businesses to restructure, increasing choices for consumers, and enabling society to become more flexible.

**Synthetic Reality**
With the rapid evolution and diffusion of virtual reality (VR) and augmented reality (AR) devices, the digital and real worlds are being further integrated and expanded. Human perception will become synthesized within new 3D spaces, allowing the sharing of knowledge and distributed experiences.

**Pervasive Artificial Intelligence**
Widely accessible advanced machine learning will result in expanded use of AI (Artificial Intelligence). AI will improve convenience, resolve intellectual labor shortages, and drastically advance science. Mastery of AI will become a critical component of competitiveness.

**Conversational Computing**
The advancement of voice recognition technology with enhanced context/emotion interpretation will make natural and seamless people-to-technology interactions available. Such intelligently interactive systems will change human behaviors, societal interactions, and decision making.

**Decentralized Collaboration**
Dynamic, digital ecosystems will emerge in which constituents will interact collaboratively over decentralized networks. This open exchange of information and resources will revolutionize both workplaces and societies.

**Security for the IoT Era**
IoT devices have enhanced value by collecting more detailed and broader information, but have increased the risks from data breaches and large scale cyberattacks. While value associated with utilization is realized, it is now necessary to change the way we treat and protect data.

**Environment-Aware Robotics**
Advancements in perception technology for images and voice is enabling robots to acquire enhanced environmental awareness, providing opportunities to exploit its use within products such as self-driving cars and drones. These higher level operational capabilities will transform the industrial structure.

**Heterogeneity in IT Infrastructures**
To supply the massive computing performance required for AI and IoT, new infrastructure is needed for both general use and specific purposes. Cloud services will rapidly enable such future flexible infrastructure.

**Physical Digital Convergence**
The physical-digital convergence will broaden in scope increasing the flexible and effective use of technology. This will create new value as limitations in time, space, and ability are removed.

**Experience Design Innovation**
Development of the API economy and UX design are simplifying the creation and continuous evolution of innovative services. Propagation of IoT will drastically change interactions between human and systems resulting in more natural and freer user experiences.

**Ever-Evolving Things**
Data analytics will fuel innovation. Products will become ever-evolving things, continuously improving functionality and performance. This will boost customer value and promote the transformation of business models.

**Precision Life Science**
DNA Analysis, biosensors, and EHR continuously generate data related to individuals, accelerating the field of data-driven life sciences and enabling root cause analysis of genetics, personal habits, and environmental factors to aid in the treatment and preventive care of individuals.