

こころと知性をつむぎあう  
 世界を解き明かし  
 まじわる

# NTT Communication Science Laboratories OPEN HOUSE 2026

5/20 (Wed) · 21 (Thu) · 22 (Fri)

**Venue** NTT WEST **QUINTBRIDGE PRISM**  
 4-15-82 Higashinodamachi, Miyakojima-ku, Osaka  
 10 min. walk from north exit of Kyobashi Station on JR Osaka Loop Line;  
 10 min. walk from west exit of Kyobashi Station on Keihan Main Line;  
 5 min. walk from Kyobashi Station on Nagahori Tsurumi-ryokuchi Line  
 on Osaka Metro

**Registration required**

Register here



**Free admission**

## Talks

Note: Research talks will be uploaded to a special website for this event.

### Invited Talk

◆ **Research and Development of the AI Suitcase and the Challenge of Social Implementation — Toward the Future of Mobility Support —**

Project Professor, Keio University  
 IBM Fellow Emerita  
 Chief Executive Director, Miraikan (The National Museum of Emerging Science and Innovation)  
 Chieko Asakawa

### Research Talk

◆ **Digital Organoid: Frontier of Bio-Medical Science**  
 Digitalized Biological Models to Realize Better Medicine and Health

Media Information Laboratory Kenji Komiya

◆ **Understanding, Predicting, and Controlling Event Timing**  
 Event Time Series Analysis Using Point Processes and Machine Learning

Innovative Communication Laboratory Hideaki Kim

◆ **Science of the Brain and Body behind Winning**  
 Uncovering Neural and Physiological Mechanisms of Winning and Losing in Esports

Human Information Science Laboratory Sorato Minami

## Research Exhibits

Note: The content of the research exhibits will be uploaded to a special website for this event. At the venue, researchers will give explanations and demonstrations of their exhibits.

**Machine Learning Science**

- ◆ **Seeking to capture the growth trajectory of cells**  
Interactive hypothesis testing on cell differentiation
- ◆ **Estimating cellular interactions from patterns**  
Modeling biological development with agent simulation
- ◆ **Towards energy-efficient AI models**  
Integrating sparsity and quantization for model compression
- ◆ **Do not compute: Fast approach for vector search**  
Accelerating ScaNN via pruning-based vector quantization
- ◆ **Fast and accurate event timing prediction**  
Event time analysis via point processes and machine learning
- ◆ **Who is affected by this policy, and why?**  
Accurate, interpretable statistical causal effect estimation
- ◆ **Evaluating uncertainty in the probability estimation**  
Variance computation for probabilistic inference outcome

**Media Information Science**

- ◆ **Listening to what you want!**  
Real-time selective listening of everyday sounds
- ◆ **Providing a diverse range of appealing voices**  
An idol voice dataset for research on speech generation AI
- ◆ **Were you able to thoroughly disinfect the entire area?**  
Evaluation of disinfection activities using thermal camera
- ◆ **3D world captured by humans and AI**  
Comparing depth estimation bias using large-scale human data
- ◆ **Material perception through vision**  
Vision-based methods for conveying softness and stickiness

**Communication and Mathematical Science**

- ◆ **Solving open problems in arithmetic dynamics**  
Partial resolution of Morton-Vivaldi's conjecture
- ◆ **Can you trust these search results?**  
Hub text identification for cross-modal embeddings
- ◆ **How is envy depicted in picture books?**  
The effectiveness of picture books for emotional education
- ◆ **How was that story?**  
An AI system for talking about picture book impressions
- ◆ **Measuring cognitive and affective empathy**  
Dataset construction and analysis for both empathy types

**Human Science**

- ◆ **What do circular leg movements tell us?**  
Smartphone-based foot skill and postural control evaluation
- ◆ **The essence of winning revealed through esports**  
In-match biosignals predict win/loss and assess expertise
- ◆ **What mind-body states drive elite victory?!**  
Individualized hormone–performance relationship & regulation
- ◆ **Understanding the mind from eyes and brain in the wild**  
Scaling mind reading beyond the lab
- ◆ **How people make sense of non-realistic virtual worlds**  
Examining how a sekai-kan is formed in the human mind