

# Demo/Poster Session Guided Tour Information



1booth  
Approximately  
5minutes

Time required: 30-40 minutes

※Please make sure to obtain a ticket that includes the guided tour.

If this is your first time attending the Open House, you might be wondering what kind of research is conducted at NII or even how to navigate the poster presentations.

To help with this, we are offering guided tours of the demo and poster exhibitions during the time slots below. Please register for a Guided Tour Ticket in advance, and gather in front of the 2nd floor Information Counter at the start time.

**11:10-11:50** Autonomous driving tests, smart adjustment of choices, domestic medical LLMs, realistic 3D visuals, and technologies that “make things smarter”

**A-05** How to smartly test and debug AI systems and automated driving systems?  
- Search/Optimization-based Testing and Debugging for AI and Automated Driving Systems -

**B-05** Coordinating people's decisions based on information- Power of mediators in Bayesian games -

**C-03** Research and Development of Open Large Language Models to Support Healthcare in Japan

**D-01** Advanced visual media fall in love with light field representation rather than conventional image processing - Virtual transparency using reconstructed light fields for 3-D consistent ambient communications -

**12:10-12:50** Piano performance, anti-fake measures, the global economy, insect robots — experience the diversity of NII research

**D-08** Musical instrument sound synthesis  
- Closing the Gap to Human Musicians: Expressive Piano Performance Synthesis with AI -

**E-02** How to avoid being fooled by fakes- SynMedia Center -

**F-02** Decode Global Society with Data & AI - and Tackle Its Challenges!- Hack the Global Economy!  
Global Capital Dynamics and AI Digital Twins -

**F-04** Insect-Inspired Robot System - How can an insect reach its destination efficiently?- Revealing insects' olfactory navigation abilities through insect VR and airflow visualization -

**15:10-15:50** From autonomous driving to cybersecurity — the frontlines of creating “safety”

**A-07** Social Acceptance of Automated Driving Vehicles- Mathematical Logic for Safety of Automated Driving Vehicles -

**D-07** Detecting speech deepfake using a large-scale speech foundation model- Generalizable and robust speech deepFake detection -

**D-09** Is that face image fake? Demonstration of deepfake detection with SYNTHETIQ VISION.- SYNTHETIQ VISION: The deepfake detection system -

**E-03** Towards a secure healthcare information environment- Infrastructure operation support systems to ensure resilience under cyber-attack -

16:10-16:50 Reliability in the cloud, software safety, the potential of quantum tech, medical support through image analysis — the frontlines of technologies that “support”

A-04 Cloud Infrastructure Operation- LC4RI: Building a resilient cloud infrastructure team focused on [evidence notebooks] -

A-06 A mathematical approach to ensuring the correctness of software  
- Formal Verification with Optimal Transport -

B-04 What quantum computers can achieve? ~ quantum algorithms for transport phenomena  
- Algorithm exponentially accelerating the radiative transfer analysis with fault-tolerant quantum computers -

C-02 Innovative aids for medicine through IT- Study on cloud platform and AI image analysis for medical bigdata -

17:10-17:50 **For graduate students** AI' s reasoning, trustworthiness, embodiment, and applications — a multifaceted overview of AI research

C-06 How AI understands relationships : Analyzing the inner workings of it- The geometric structure of the embedding space in large language models -

C-07 Make AI Smarter with Logic- Symbolic Reasoning That Connects to Machine Learning -

C-09 Robots playing musical instruments- Dual-arm robot drum roll demonstration -

C-10 Energy Monitoring with Minimal Bandwidth and Computing in Smart Homes  
- Communication- and Computation-Efficient AI Monitoring for Next-generation Smart Grids -

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