NTT

20th Anniversary

NTT Communication Science Laboratories

OPEN HOUSE
2011

■ Thursday, June 9, 12:00～17:30　■ Friday, June 10, 9:30～16:00　　■ Venue: **NTT Keihanna Building**
(2-4 Hikaridai Seika-Cho Soraku-Gun, Kyoto, 619-0237, Japan)

**No Admission Charge
No Pre-Registration Required**

Opening Event

Thursday, June 9	13:00 - 13:15	**Words of Welcome** Noritaka Uji, Senior Executive Vice President, Nippon Telegraph and Telephone Corporation
	13:15 - 13:30	**Message from Guest of Honor** Makoto Nagao, Librarian, National Diet Library
	13:30 - 14:00	**Greeting from Director** Naonori Ueda, Director, NTT Communication Science Laboratories

Invited Talk

Friday, June 10	13:00 - 14:00	**Birdsongs and human tweets:** **Evolution of human communication and ICT society** Mariko Hasegawa, Professor, Department of Evolutionary Studies of Biosystems, School of Advanced Sciences, The Graduate University for Advanced Studies

Oral Presentations

Thursday, June 9	14:05 - 14:45	**Supporting Communication in Global Networks** Machine Translation and Social Network Mining (Kevin Duh and Albert Ching-Man Au Yeung, Innovative Communication Laboratory)
	16:00 - 16:30	**Formal Methods for Security and Privacy** (Yasuyuki Tsukada, Innovative Communication Laboratory)
	16:30 - 17:00	**Human Interfaces Based on Applied Sensory-Illusion Engineering** (Tomohiro Amemiya, Human and Information Science Laboratory)
Friday, June 10	11:00 - 11:30	**Achievement for Ambient Intelligence Project** Steps towards IT Environment Appropriately Communicating with Humans (Yasuhiro Minami, Media Information Laboratory)
	11:30 - 12:00	**Interaction: Invention? Intellection!** (Naomi Yamashita, Media Information Laboratory)

Access

Exhibitions (Introduction to Research Contents and Findings)　●Visitors can view the exhibitions throughout the event

Media Information Laboratory

· **Meeting Assistance System by Rapidly Indicating Who Spoke When and What**
Technology for Scene Analysis of Multi-Speaker Conversation

· **Speech Recognition System that Learns from Errors**
Discriminative Model Training for Speech Recognition

· **Automatic-Speech-Recognition-Friendly Speech Enhancement**
Noise-Robustness Techniques Based on Learning What Natural Speech Is Like

· **It's OK to Leave Some Noise!**
Unification of Noise Reduction Technique and Speech Recognizer

· **Optical Dice**
Compact and Fast Random Bit Generator Using Laser Chip

· **How Conversational Robots Make Smartly-Timed Speech Behavior**
Adaptive Timing Control of Robot Behavior for Smooth Human-Robot Interaction

· **How to Train a Conversable Agent using Dialogue Data**
Statistical Dialogue Control for Natural and Satisfying Interaction

· **Viscuit: Digital Education Tool for Coproduction and Creation**
Practice of Visual Programming Language Teaching on the Network

· **Bridging Interaction Analysis and System Design**
What Has the t-Room Solved, and What Has Not Yet Been Solved?

· **Link to Media**
Robust Media Search on Smartphones and Web Browsers

· **Instantaneous Detection of Identical Image Patterns**
Fast Image Matching Technique -

· **Detecting and Annotating Generic Objects in Real World**
Easy-To-Use Semi-Supervised Learning for Generic Object Recognition

· **Stereo 9-Band Camera System for Accurately Estimating Object Color and Shape**

· **Understanding Empathy Between People From Their Smiles**

Innovative Communication Laboratory

· **Recognizing Human Activities with Magnetic Fields**
Finger-Ring Type Sensor Device with Magnetic Sensors for Healthcare and Fitness Monitoring

· **Efficient Data Gathering Using Singular Value Decomposition for Sensor Networks**

· **Early Recognition Methods For Time Sequence Classification**

· **More Data is Better Data**
High-Performance Dependency Parsing Using Large Text Data

· **How Many Points Do You Give For This Translation?**
Why Do You Use BLEU?

· **Reading Between the Lines for Extracting 5W1H from Texts**
High-Accuracy Analysis of Subjects and Objects for Real-World Texts

· **Aiming at Promoting Content Circulation**
A Formal Approach to Interoperability between Licenses

· **Enhancing the Feasibility of a Novel Quantum Computational Model**
Measurement-Based Method for Quantum Operations

· **How to Cut a Cake Fairly**
Meta-Envy-Free Cake-Cutting Protocols

Human And Information Science Laboratory

· **Why Complain in Listening?**
Auditory Tests That Sense Brain Variabilities

· **A Mechanism of Visual Motion Integration over Space**

· **Touchable Illusions**
Tools for Understanding Human Tactile Perception

· **Subliminal Perception and Underlying Mechanism of Mind**

· **Smooth Writing by Optic Flow**
How the Implicit Visuomotor System Works

· **Guide You to the Desired Place**
Route Navigation by Pseudo-Attraction Force "Buru-Navi"

Moriya Research Laboratory

· **Relationship between Respiration and Music**
Possibility of Music Presentation that Corresponds to Respiration Frequency

Contact