# 2023 C&C Prize Ceremony

On November 29, 2023, the 2023 C&C Prize Ceremony was held at the ANA InterContinental Tokyo (Minato-ku, Tokyo). 78 people attended the ceremony venue (**Photo 1**), and 33 people watched online.

The ceremony began at 3 pm with an opening address by President Niino. In his remarks, he introduced the foundation's key activities and reported that the C&C Prize was celebrating its 39th year since their inception in 1985, having produced 77 groups and 122 recipients, some of whom went on to win Nobel Prizes. Next, the selection process and the two award-winning groups were announced by Dr. Hideyuki Tokuda, Chair of the Award Committee. Recipient Group A was awarded for "For Contributions to the Field of Quantum Information Technology, inclu ding the Development of Superconducting Qubits and Quantum Computers". Dr. Yasunobu Nakamura, Director of RIKEN Center for Quantum Computing and Professor at Department of Applied Physics, Graduate School of Engineering, The University of Tokyo, and Professor Tsai Jaw-Shen, Professor at Tokyo University of Science and Team Leader at RIKEN Computer Research Center were recognized. Recipient Group B was awarded for " For Major Contributions to the Development of the Python Programming Language and its Use as Open-source Software ". Microsoft Distinguished Engineer Guido van Rossum was recognized. The achievements of each recipient were then introduced. Next, the C&C Prizes were presented to the recipients: certificates, plaques, and prize money were handed out by President Niino (**Photos 2**).

Guests then offered their congratulatory remarks. Hidetaka Nishimura, Deputy Director-Gen-



Photo 2 C&C Prize recipients commemorative photo: Dr. and Mrs. Nakamura, Prof. and Mrs. Tsai, Group A recipient; President Niino; Mr. and Mrs. Van Rossum, Group B recipient (from left).

eral, Commerce and Information Policy Bureau, Ministry of Economy, Trade and Industry, praised the recipients' achievements, and noted that their quantum information technology and programming language breakthroughs are essential for the realization of a digital society. He also expressed the Ministry's commitment to ensuring these efforts lead to the development of various industries and improvements in people's lives. In his congratulatory remarks, Dr. Hiroyuki Morikawa, President of the Institute of Electronics, Information and Communication Engineers, shared his thoughts and memories about the recipients' accomplishments, such as the rise of quantum computing and the rapid spread of Python.

During the commemorative speech, the three recipients delivered speeches. Dr. Nakamura spoke about his research on superconducting quantum bits and quantum computers. Professor Tsai spoke about his research background. Guido van Rossum then gave a speech, presenting on the history of Python, its popularity, and formation of the Python community.

Afterward, a cocktail party was held, where attendees offered congratulations and conversed in a friendly atmosphere. In the ceremony hall, the dilution refrigerator was displayed, which Dr. Nakamura and Professor Tsai used in their superconducting quantum bit development, which attracted attendees' interest.



Photo 1 C&C Prize Ceremony.

The dinner party was attended by the recipients and guests. President Niino's opening address was followed by a speech and toast from Hitoshi Matsubara, Vice President of the Information Processing Society of Japan. Dinner was served and enjoyed while conversing. At the end of the banquet, introductions, congratulatory messages, and thanks from the recipients took place. The dinner party ended at 7:45 pm in a relaxed atmosphere.

---

The details about this paper can be seen at the following.

**Related URL:**

**For more information about the recipients of the C&C Prizes please visit The NEC C&C Foundation website.**
https://www.candc.or.jp/en/2023/ceremony.html

---

## About The NEC C&C Foundation

The Foundation is a non-profit organization established in March 1985 to foster further growth in the electronics industry by encouraging and supporting research and development activities and pioneering work related to the integration of computers and communications technologies, that is, C&C, and ultimately to contribute to the world economy and the enrichment of human life. The Foundation is funded by NEC Corporation.

The Foundation currently has two main activities. It presents the annual C&C Prizes to recognize outstanding contributions to R&D activities and pioneering work in the area of C&C. Candidates are recommended from all over the world. Each prize winner receives a certificate, a plaque, and a cash award (ten million yen per group). As of 2023, 125 prominent persons had received the prize.

The Foundation also gives the following two grants: (1) grant to enable researchers in Japan to attend international conferences overseas to make presentations in the field of C&C and (2) grant to researchers in a doctorial course at a graduate school in Japan.

# Information about the NEC Technical Journal

Thank you for reading the paper.
If you are interested in the NEC Technical Journal, you can also read other papers on our website.

## Link to NEC Technical Journal website

| Japanese | English |
|---|---|

### Vol.17 No.2 Special Issue on Revolutionizing Business Practices with Generative AI
#### — Advancing the Societal Adoption of AI with the Support of Generative AI Technologies

Remarks for Special Issue on Revolutionizing Business Practices with Generative AI
Approaches to Generative AI Technology: From Foundational Technologies to Application Development and Guideline Creation

## Papers for Special Issue

**Market Application of Rapidly Spreading Generative AI**
NEC Innovation Day 2023: NEC's Generative AI Initiatives
Streamlining Doctors' Work by Assisting with Medical Recording and Documentation
Using Video Recognition AI x LLM to Automate the Creation of Reports
Understanding of Behaviors in Real World through Video Analysis and Generative AI
Automated Generation of Cyber Threat Intelligence
NEC Generative AI Service (NGS) Promoting Internal Use of Generative AI
Utilization of Generative AI for Software and System Development
LLMs and MI Bring Innovation to Material Development Platforms
Disaster Damage Assessment Using LLMs and Image Analysis

**Fundamental Technologies that Enhance the Potential of Generative AI**
NEC's LLM with Superior Japanese Language Proficiency
NEC's AI Supercomputer: One of the Largest in Japan to Support Generative AI
Towards Safer Large Language Models (LLMs)
Federated Learning Technology that Enables Collaboration While Keeping Data Confidential and its Applicability to LLMs
Large Language Models (LLMs) Enable Few-Shot Clustering
Knowledge-enhanced Prompt Learning for Open-domain Commonsense Reasoning
Foundational Vision-LLM for AI Linkage and Orchestration
Optimizing LLM API usage costs with novel query-aware reduction of relevant enterprise data

**For AI Technology to Penetrate Society**
Movements in AI Standardization and Rule Making and NEC Initiatives
NEC's Initiatives on AI Governance toward Respecting Human Rights
Case Study of Human Resources Development for AI Risk Management Using RCModel

## NEC Information

2023 C&C Prize Ceremony

**NEC Technical Journal**

## Vol.17 No.2
### June 2024

Special Issue TOP