

The 1st Workshop on Nobel Turing Challenge

April 21-22, 2022

Zoom

The workshop is a two-day program jointly organized by The Systems Biology Institute (SBI) and Okinawa Institute of Science and Technology Graduate University (OIST)

Workshop Program

(Scheduled time in JST)

Day1: Thursday, April 21

19:00-19:10 *Opening and housekeeping*

19:10-19:35 (19:40) **Prof. Hiroaki Kitano (The Systems Biology Institute, OIST)**

Opening Keynote: "The Vision and Strategy behind the Nobel Turing Challenge"

19:40-20:05 (20:10) **Prof. Ross King (Chalmers University of Technology)**

Title: "Recent Progress in Robot Scientist"

20:10-20:35 (20:40) **Dr. Shane Gu (Google Brain)**

Title: "Deep Reinforcement Learning, Knowledge Discovery, and Intelligence Measure"

20:40-21:05 (21:10) **Dr. Koichi Takahashi (RIKEN)**

Title: "Towards Autonomous Robot Lab and The Levels of Autonomy of Scientific AI"

21:10-21:20 *Break*

21:20-21:45 (21:50) **Prof. Robert Murphy (Carnegie Mellon University)**

Title: "Automated Science Approaches to Complex Biomedical Problems"

21:50 - 22:15 (22:20) **Dr. Xenofon Evangelopoulos (The University of Liverpool)**

Title: "Self-driving Lab towards Autonomous Discovery of Materials"

22:20-23:00 **Wrap up**

Day2: Friday, April 22

19:00-19:10 *Opening and housekeeping*

19:10-19:35 (19:40) **Dr. Sucheendra Kumar Palaniappan (The Systems Biology Institute)**
Title: "Taxila: Towards Platforms for Leveraging and Advancing Research on Hypothesis Generation from Text"

19:40-20:05 (20:10) **Dr. Uchenna Akujuobi (Sony AI)**
Title: "Generating Hypotheses from Large-scale Biomedical Text"

20:10-20:35 (20:40) **Prof. Benjamin M. Gyori, (Harvard Medical School)**
Title: "Large-scale Knowledge Assembly for Hypothesis Generation and Human-machine Interaction"

20:40-21:00 *Break*

21:00-21:25 (21:30) **Prof. Kenneth D. Forbus (Northwestern University)**
Title: "Human-like Representations and Reasoning for AI-driven Science"

21:30-21:55 (22:00) **Prof. Shin-ichiro Imai (Washington University in St. Louis, School of Medicine)**
Title: "Achieving Productive Aging: The Quest to Understand the Mechanism of Aging and Longevity in Mammals"

22:00-23:00 **Wrap up discussion or more talks**

The 1st Workshop on Nobel Turing Challenge

Program Committee:

Ross King (The Alan Turing Institute),
Yolanda Gil (ISI/USC),
Michael Spranger (Sony AI),
Jun Seita (RIKEN),
Koichi Takahashi (RIKEN),
Samik Ghosh (SBI),
Suheendra Kumar Palaniappan (SBI),
Hiroaki Kitano (SBI, OIST)

Operation Committee:

URL: <https://groups.oist.jp/obu/event/workshop-nobel-turing-challenge>

Email: iosu-workshop@oist.jp

The Systems Biology Institute (SBI)
Okinawa Institute of Science and Technology Graduate University (OIST)- Integrated Open Systems Unit