

Workshop on AI for Science, Engineering, and Society

Date: Oct. 2 (Fri) 9:30-15:20

Venue: Conference Room 04, 2nd Floor, 63 Building, Campus of Faculty of Science and Engineering

Organizer: Graduate School of Advanced Science and Engineering, Waseda University

Co-organizer: Global Consolidated Research Institute for Science Wisdom, Nano-Energy Unit of TGU Program, Institute for Advanced Research of Biosystem Dynamics, TWIns, Waseda University

Program

9:30-9:35	Opening Address	Toru Asahi	Dean, Graduate School of ASE, Waseda University
9:40-10:10	Special Lecture Introduction of the Union program Horizon Europe (Horizon Europe Program):Promotion for International Collaboration	Rodolphe Doité	Head, Program Management Hub, of FARI – AI for the Common Good Institute
10:15-10:35	Lecture Introduction of the Concept of GRC Project “AI for Bioscience” in Waseda University (Video)	Michiaki Hamada	Professor, Graduate School of CSE, Waseda University
10:40-11:00	Lecture Controlling Soft Bodies with Physical AI Technologies	Hideyuki Sawada	Professor, Graduate School of ASE, Waseda University
11:05-11:25	Lecture Introduction of Advanced Cheminformatics with AI Technologies	Junji Seino	Associate Professor, Graduate School of ASE, Waseda University
11:30-11:50	Lecture Introduction of AI Research in Morishima Laboratory	Shigeo Morishima	Professor, Graduate School of ASE, Waseda University
11:55-12:15	Lecture Development of Advanced Bioinformatics in Takeyama Laboratory	Haruko Takeyama	Professor, Graduate School of ASE, Waseda University
12:15-13:15	Lunch Break		
13:15-13:35	Lecture Incorporation of AI Technology into Genome Research for Bioluminescent Organism	Kei Yura	Professor, Graduate School of Humanities and Sciences, Ochanomizu University / Visiting Researcher, Comprehensive Research Organization, Waseda University
13:40-14:00	Lecture Materials Informatics for Exploring High Functionalities in Organic Crystals	Takuya Taniguchi	Associate Professor, Center for Data Science, Waseda University

14:05-14:15	Oral Presentation Elucidation of the Solid-State Chiral Inversion Mechanism of the Chiral Drug Thalidomide Using Machine Learning	Ayaka Matsumoto	PhD Student, Asahi Lab., Graduate School of ASE, Waseda University
14:20-14:30	Oral Presentation Age-Related Behavioral Changes Across the Adult Lifespan of a Cricket: A Longitudinal Analysis Using DeepLabCut	Tomohiro Aihara	PhD Student, Asahi Lab., Graduate School of ASE, Waseda University
14:35-14:45	Oral Presentation From Natural Language Commands to Robotic Action: Human-AI-Robot Interaction Using Language Models	Nuttasorn Aiemseththee	PhD Student, Sawada Lab., Graduate School of ASE, Waseda University
14:50-15:00	Oral Presentation Elucidating the Host–Rhizobium Symbiotic Mechanism in Soybean Nodules: Gene Expression Dynamics Analysis Using AI Coding Tools	Yuho Tani	Master Student, Takeyama Lab., Graduate School of ASE, Waseda University
15:05-15:20	Closing Address	Mikiko Shimaoka	Professor, Research Innovation Center, Waseda University