2019 Global PBL (outbound) Program Report

芝浦工業大學
SHIBAURA INSTITUTE OF TECHNOLOGY

gPBL of Robotics, Neural networks and Machine learning in Obuda University

Implementation period	Implementing country	SIT's implementation partner organization	Target students	participant	SIT instructor
2020/02/27 ～2020/03/12	Hungary	Obuda University	・Department of Electrical Engineering ・Undergraduate 2nd grade	(SIT) Students 6, TA 1, Professor 2 (Obuda University) Students 6, TA 3, Professor 1	yoshimi takashi(Department of Electrical Engineering)、yasumura yoshiaki(Department of Electrical Engineering)

Image1 Project Working

Global Project Based Learning (gPBL) on Robotics, Neural networks and Machine learning was held from February 27 (Thursday) to March 12 (Thursday), 2020 at the Antal Bejczy Center for Intelligent Robotics at Obuda University, Budapest, Hungary. Local supervisor was Dr. Péter Galambos, Associate Professor of John von Neumann Faculty of Informatics and Director of Antal Bejczy Center for Intelligent Robotics. The participants were six 2nd year undergraduate students from the Department of Electrical Engineering, Shibaura Institute of Technology (SIT) and 6 students from Obuda University (2 undergraduates and 4 master students). One TA from our university and 3 doctoral students from Obuda University supported during the entire period of this program, and 2 faculty members of SIT Department of Electrical Engineering took charge of the first and the second half.

In the 8 days program of this year, the students mainly challenged to the given tasks of the topic of robot motion programming and character recognition in the laboratory. Although it was a little advanced and difficult for the undergraduate students of our university, they were able to enjoy these tasks under the advice of supervisor and TAs, and they finally completed these given tasks. In addition, during the period of this program, the students enjoyed visiting facilities in Obuda University and robot company KUKA in Budapest, and field trip for experiencing different cultures in Budapest city.

The participating SIT students were able to interact with many undergraduate and graduate students at Obuda University, and they could deepen mutual understanding and spend meaningful time by joining this gPBL program.
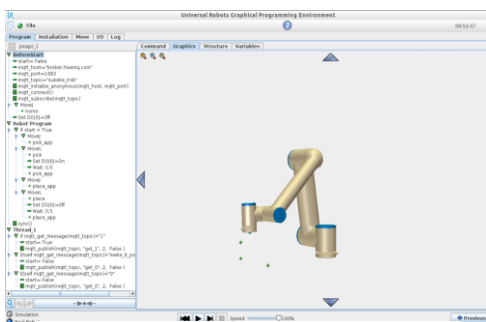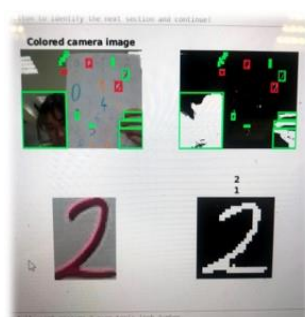

Image2 Robot Arm Simulation
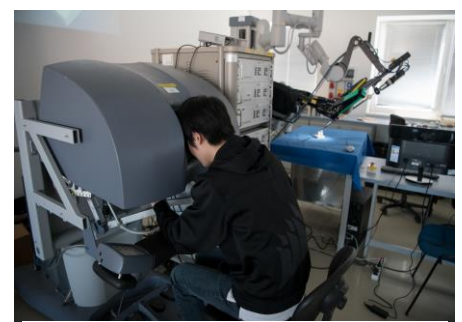

Image3 Character Recognition

Image4 Surgical Robot Operation

Image5 University Hostel

Image6 Budapest City

Image7 Parliament