

Opportunities for research collaboration with Hosei University (Japan)



ERAdiate LECTURE SERIES



Report

On May 17, the ERAdiate Team was pleased to welcome and host distinguished guests from Hosei University for its second Lecture Series: Prof. Kazuo Yana and Prof. Genci Capi of the Faculty of Science and Engineering came to present their work on intelligent robotic systems. The lecture was focussed on two topics.



Monbukagakushou Honours Scholarship, and the Sato
Scholarship for Self-Supporting Students.

Prof. Yana first presented the potential for collaboration with the Institute of Integrated Science and Technology, which he leads. He introduced the HIF Foreign Scholars Fellowship, which finances young scholars or professors to carry out research at Hosei University in Tokyo for periods ranging from a few months up to three years. Other funds he presented included the Hosei University Daisei Kensetsu Vietnam Friendship Scholarship, The JASSO Study Incentive Fund, the Yo International Scholarship Foundation

This was followed by a fascinating presentation by Prof. Capi on the study of learning processes designed to improve decision-making algorithms for self-driving robots. The research method consists of



capturing and analysing brain signals on live mice trained to find food in a maze. The result of the direction prediction is then used for designing real robot navigation systems. Interestingly in an ageing country like Japan with a shrinking workforce, robotic applications are designed with this challenge in mind and include, among others, robots designed as automated walkers for the older people and nursing robots for first medical diagnosis in hospitals.