COURSE: Computer vision and robot

**Summer Program 2017** 

## COURSE TUTOR

Professor Kikuhito Kawasue, Faculty of Engineering, University of Miyazaki

## COURSE OVERVIEW

This course presents the hands-on experience with computer vision system and robotics. Computer vision technique to detect the information from a scene for the robot control is introduced. Student will use C++, C# or Microsoft Excel depends on his computer ability and develops the algorithm such as a feature extraction, calibration, robot control etc. We provide some applications to be selected in this course: 2D or 3D computer vision, 6-axis robot, 2-wheels robot, biped walking robot etc. Student will select some options with considering his pre-knowledge after his arrival.

## **TEXTBOOKS AND READINGS**

Required readings will be distributed. A list of further materials for each topic may be provided in order to assist students in the preparation of their class.

## COMMUNICATIONS

The course tutor's details are as follows:

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