

# INFR11092 – Robotics: Science and Systems (RSS)

Response to student feedback in 2018/19 course survey

We have taken note of the feedback from students in this course survey, and have the following comments in response. Many thanks for those who provide constructive suggestions for improving the quality of teaching. Summarised responses as follows

- The RSS course has three parts designed for consolidating essential robotics skills: Theoretical lectures, tutorial coding practice, and lab practical to transfer both theories and coding for the implementation on the real robots. In particular, the lab practical as an important part of the robotics course can be indeed challenging for some students, since it demands a lot of hands-on skills which can be somewhat time-consuming without any prior experience.
- Regarding equations and mathematical notions, due to past years experience and feedback, we need to embed sufficient multimedia content for the course, therefore we no longer use beamer for latex-editing the slides anymore. Instead, we use Google slides, which has limited functionality for symbols in equations. However, we have defined and explained very well all the symbols in the equations, and there shall be no confusions within the RSS slides.
- Regarding the 'blackboard' exercise and 'answers', we do have whiteboard walkthrough during the lectures, as some other answers reflected. For some of the course content, the whiteboard helps to explain the principles and theories in addition to the core slides (which are necessary), and therefore we show how theories are derived and what the answers are. For some other questions we have 'takeaway' messages/homework for students to work out, however if those homework are not finished by the students offline, then we need to go through them in the course to provide answers.
- Regarding the wide coverage of topics in robotics, RSS has the goal to cover the most essential elements as possible. Since robotics is multidisciplinary, a wide range of topics is inevitable. This, on the other hand, ensures a good foundation and gains the edge for the students in future robotics studies, research and job application. If some directions are of interest, there are more specialised courses in semester 2 as future continuation of the robotics study.
- Regarding the robotic hardware, we are in the process of having ready and operational systems, which will provide much better experience for the lab practical.

**Zhibin Li, 15th May 2019**