

Sprint Retrospective Document

Date: 06/03/2018

Group name / Project name: Group 12 / Collaborator

Members: Tahsincan Köse, M. Raşit Özdemir, Cansın Canberi, Burak Hocaoglu

Assistant: Güneş Sucu

Supervisor: Erol Şahin

Sprint 6 summary

| Item ID (from the previous retrospect ive doc) | ID of the related workpackage ID (from the Kick-off doc) | Status | Group's comments | Assistant or supervisor comments |
|--|--|-------------|--|-------------------------------------|
| 1 | 3,4,5 | Completed | Corner detection is at its optimum. Shared workspace region is precisely represented in the Simulation. Thus, Motion Planning module acknowledge its entity in entirety. Through calibrating Kinect, we now know the exact coordinates of the robotic arm and any pixel which Kinect captures. | |
| 2 | 2,3,4 | In progress | We are on the track of producing the complete real environment in simulation. Object detections are being matured | |

| | | | | |
|---|--------------------|-------------|--|--|
| | | | and table will be detected precisely. After then, the simulation will have all required information. | |
| 3 | 3,4 | Completed | We did use Harris Corner Detection Algorithm that is readily implemented in OpenCV library. After a number of tests, we came up with the optimal arguments to feed into the algorithm. | |
| 4 | 2,3,4,5(MFs:12,14) | In progress | It is dependent to the subjects described in Item 2 as well. Also, we are waiting the Watchdog system to be up and running. | |

Sprint 7 plan

| Item ID | ID of the related workpackage (from the Kick-off doc) | Description | Status |
|---------|---|---|------------------------|
| 1 | 3 | Complete Object Detection | New |
| 2 | 2,3,4 | Successful motion planning in the environment generated by mapping the perception output to the simulation world. | Leftover from Sprint 5 |
| 3 | 6 | Watchdog System will be up and running in order to filter risky motions. | New |
| 4 | 2,3,4,5 (MFs:12,14) | Execution of sample stacking scenario in | Leftover |

| | | | |
|--|--|---|---------------|
| | | simulation environment through input provided by Kinect sensor with proper geometric representations of the experimental equipment gathered mentioned in the Logistics. | from Sprint 5 |
|--|--|---|---------------|

Overall progress

| | Sprint 1 | Sprint 2 | Sprint 3 | Sprint 4 | Sprint 5 | Sprint 6 |
|------|----------|----------|----------|----------|----------|----------|
| MF1 | 25% | 100% | 100% | 100% | 100% | 100% |
| MF2 | 0% | 100% | 100% | 100% | 100% | 100% |
| MF3 | 0% | 20% | 100% | 100% | 100% | 100% |
| MF4 | 15% | 15% | 25% | 40% | 50% | 60% |
| MF5 | 0% | 0% | 0% | 0% | 0% | 5% |
| MF6 | 0% | 0% | 0% | 0% | 0% | 0% |
| MF7 | 0% | 0% | 0% | 20% | 40% | 40% |
| MF8 | 0% | 0% | 0% | 0% | 0% | 0% |
| MF9 | 0% | 0% | 0% | 0% | 0% | 0% |
| MF10 | 0% | 0% | 0% | 0% | 0% | 10% |
| MF11 | 0% | 0% | 20% | 50% | 50% | 70% |
| MF12 | 0% | 0% | 0% | 100% | 100% | 100% |
| MF13 | 0% | 0% | 0% | 0% | 0% | 50% |
| MF14 | 0% | 0% | 0% | 50% | 70% | 75% |

This section will be filled in by your supervisor.

Please grade the items below using the following scale:

1=Poor

2=Minimal

3=Sufficient

4=Above Average

5=Excellent

| Criteria | Grade |
|--|--------------|
| Progress of the team in this sprint. (Grade percentage: 50%) | |
| The accuracy of the summary table above (e.g. are the task status declarations correct?). (Grade percentage: 25%) | |
| Considering the weekly meetings, the attendance and preparation level of the team (i.e. Toplantılara düzenli olarak ve hazır bir şekilde, örneğin bir toplantı gündemi oluşturarak, katıldılar mı?) (Grade percentage: 25%) | |