SIROM

News Article on SIROM Project Consortium CDR Meeting

Xiu Yan, March 2018

SIROM Critical Design Review meeting was held at Space Application (Brussel, Belgium) on the 12th and 13th of February, 2018. Representatives from SENER, Leonardo, University of Strathclyde, DFKI, Space Applications, MAG SOAR, Airbus Defence and Space, Teletel and the project officers from Programme Support Activity (PSA) of the Strategic Research Cluster in Space Robotics Technologies of Horizon 2020 programme of the European Commission Dr. Daniel Noelke, Dr. Javier Rodriguez Gonzalez and Dr. Christos Ampatzis attended.

Space application offered to the partners a tour of their facilities which was the occasion to discuss their research outcomes and to see the development of the SIROM Controller.

This 2 days meeting was organised according to the following agenda:

Day 1 – Monday 12th of February 2018

- 11:00 - Agenda review, general organization with SPACEAPPS, SENER
- 11:15 - OG5 CDR objective and status overview SENER
- 11:30 – Review/Close/Actions of RIDs in JIRA on a document basis. Start with DDF, DJF and Structural reports.
- 14:30 Visit of the Space Application facilities
- 15:00 – Review/Close/Actions of RIDs in JIRA on a document basis
- 18:30 - End of day 1 CDR meeting

Day 2 – Tuesday 13th of February 2018

- 09:00 – Review/Close/Actions of RIDs in JIRA on a document basis
- 11:00 - WP4-WP5 planning and organization (10'+10') [SENER, ADS-D]
- 10:45 – Wrap-up and end of CDR meeting (15') [SENER, PERASPERA/REA]
- 11.30 - End of meeting
- 13:30 – Continuation for additional SIROM design discussions

These 2 days have been mainly focus on the review/Close/Actions of RIDs in JIRA on a document basis. Sener used this occasion to present a 3D printed dummy of the SIROM IF which helped the partners to discuss about the aspect of the design that needed to be clarified.

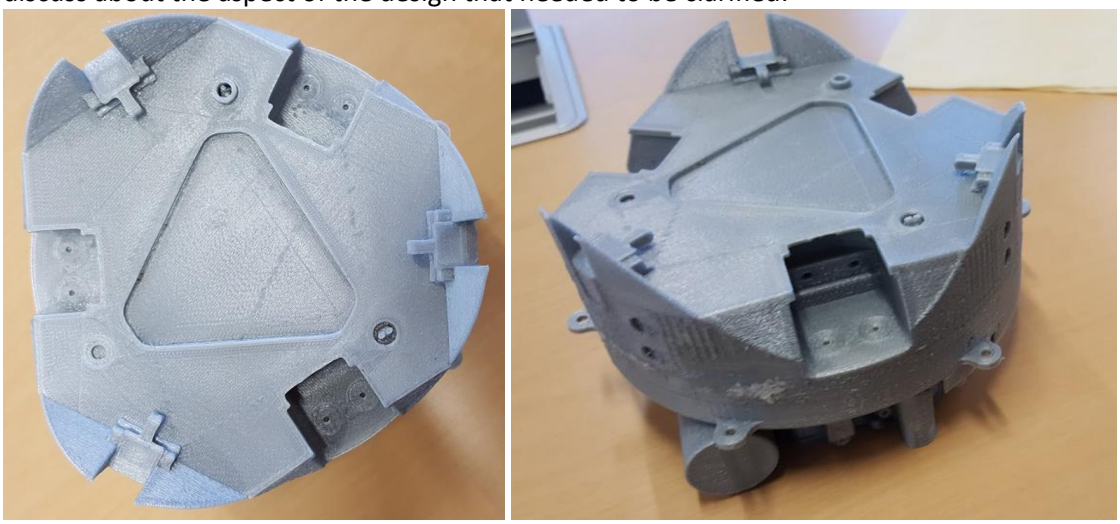

Figure 1 Three D printed SIROM IF prototype

The remaining time was employed to do some planning and organisation for the WP4-WP5, with some discussions regarding the dessimination activities.

Dissemination activities and Announcements

1. Two papers have been accepted and have been presented with the following details:
    a. Jankovic M., Wenzel W., Palazzetti R., Bartsch S., Yan X. T ."Concepts of active payload modules and end-effectors suitable for Standard Interface for Robotic Manipulation of Payloads in Future Space Missions (SIROM) interface", 978-1-5386-2014-4/18, the 2018 IEEE Aerospace Conference in Big Sky, Montana, USA, 3-10 March 2018.
    b. Brinkmann, W. and Roehr, T. M. and Natarjan, S. and Cordes, F. and Sonsalla, R. U. and Szczuka, R. and Bartsch, S. and Kirchner, F, "Design and Evaluation of an End-Effector for a Reconfigurable Multi-Robot System for Future Planetary Missions", the 2018 IEEE Aerospace Conference in Big Sky, Montana, USA, 3-10 March 2018.

2. University of Strathclyde, with the support of Institution of Mechanical Engineers (IMechE) and Intuition of Engineering and Technology (IET) Robotics & Mechatronics TPN will organise the 16th Mechatronics Forum International Conference-MECHATRONICS 2018: Reinventing Mechatronics in Sept, 2018. Due to clash with IAC, a special session planned for SIROM project as well as other OGs as a platform to disseminate the research findings may have challenge to go ahead.

   Detailed information can be found at conference website and all partners are encouraged to participate this conference. http://mechatronicsforum.co.uk

3. SIROM project will support the 69th International Astronautical Congress (IAC), to be held at Bremen, Germany, on 1-5 OCT 2018 with planned papers. More information can be found at the conference website: https://www.iac2018.org/