



SIROM



SIROM's Success at IAC 2018 in Bremen

A Special News Issue on IAC

Javier Vinals and Xiu Yan 11th Oct 2018

A well-represented SIROM consortium team attended 69th International Astronautical Congress 2018 from 1st to 5th October 2018 held in Bremen, Germany. This session of IAC Conference is its biggest event, attracting over 6300 delegates from around the world and the Organising Committee received over 1000 submissions for consideration. This is the world Congress in Space.

SIROM team joined PERASPERA team and other Operational Grant (OG) teams shown in Photo 1 to promote the research and development outcomes of all six OG's achievements so far in a dedicated exhibition booth hosted by the DFKI.. This exhibition booth has attracted a lot of interests from both IAC delegates and general public on Germany's national holiday on Wednesday 3rd Oct 2018.

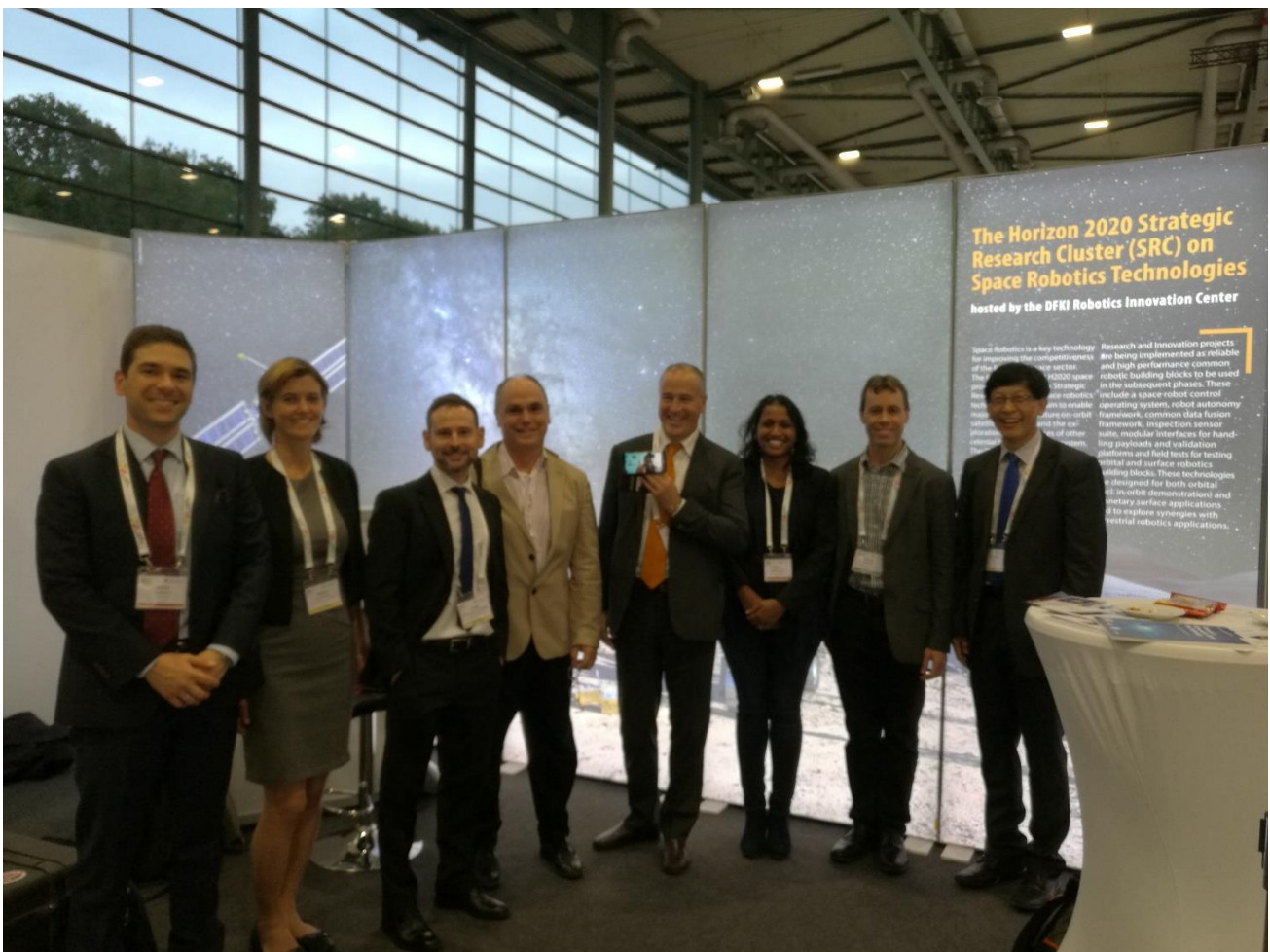


Photo 1. Team photo of PSA members and representatives from all OGs manning the booth for five days.

The whole team's effort received appreciation from the Programmer Officer Dr. Christos AMPATZIS with a thumb up in Photo 1.

At the conference, SIROM team has produced one journal paper and 3 conference papers published with the following details:

1. Javier Vinals, Eduardo Urgoiti, Gonzalo Guerra, Ignacio Valiente, Judit Esnoz-Larraya, Michel Ilzkovitz, Dogu Cetin, Pierre Letier, Xiu-Tian Yan, Gwenole Henry, Albino Quaranta, Wiebke Brinkmann, Marko Jankovic, Sebastian Bartsch, Vangelis Kollias, Nikos Pogkas, "Multi-functional interface for flexibility and reconfigurability of Future European Space Robotic Systems", *Advanced in Astronautics Science and Technology – Special Issue with Selected Papers from IAC-2018*, Springer, page 119-133, <https://doi.org/10.1007/s42423-018-0009-1>, published online: 6 September 2018.
2. Brinkmann W., Jankovic M., Stoeffler C., Ubierna M., Urgoiti E., Vinals J. and Bartsch S., "Modular Active Payload Modules for Robotic Handlings in Future Orbital Missions", In *Proceedings of the 69th International Astronautical Congress (IAC 2018)*, October 1-5, Bremen, Germany, International Astronautical Federation (IAF), 2018
3. Javier Vinals, Eduardo Urgoiti, Gonzalo Guerra, Ignacio Valiente, Judit Esnoz-Larraya, Michel Ilzkovitz, Dogu Cetin, Pierre Letier, Xiu-Tian Yan, Gwenole Henry, Albino Quaranta, Wiebke Brinkmann, Marko Jankovic, Sebastian Bartsch, Vangelis Kollias, Nikos Pogkas, "Systems and Infrastructures to Implement Future Building Blocks in Space Exploration and Development - future space missions with reconfigurable modular payload modules and standard interface - an overview of the SIROM project", In *Proceedings of the 69th International Astronautical Congress (IAC 2018)*, October 1-5, Bremen, Germany, International Astronautical Federation (IAF), 2018.
4. A. Tringalia, S. Cocuzza , X. T. Yan, "Predictive control of a space manipulator through error and kinetic energy expectation", In *Proceedings of the 69th International Astronautical Congress (IAC 2018)*, October 1-5, Bremen, Germany, International Astronautical Federation (IAF), 2018.

SIROM team in Photo 2 has been very active in promoting SIROM and other OG's activities and it is worth mentioning that Ms Wiebke Brinkmann was particularly popular with younger visitors at the booth on the Germany's National Holiday with two groups she was talking to.



Photo 2. SIROM team and PSA member manning the booth for five days

The interactive presentation paper has also received a nomination as one of the three finalists shortlisted as a finalist for the best paper award in Category D Infrastructure. It is unfortunate that in the end our paper was not selected to be the best paper prize, however this nomination nevertheless represents a very good achievement of the SIROM team and received an appreciation from the organizing Committee and the Prize and Award Committee. This is a result of selection process in which 341 entries were received and 69 interactive presentations have been shortlisted, and finally SIROM paper was shortlisted as one of the three finalists for the award.

Mr. Javier Vinals in Photo 3 gave an overview of SIROM project by presenting a paper entitled *Future space missions with reconfigurable modular payload modules and standard interface - an overview of the SIROM project*. His presentation was well received and appreciated by audience.



Photo 3 Mr. Vinals is presenting a paper entitled *Future space missions with reconfigurable modular payload modules and standard interface - an overview of the SIROM project*

At the IAC, Ms. Wiebke Brinkmann gave a presentation of second paper on the consideration of active payload related to SIROM. Her paper and presentation title is *Modular Active Payload Modules for Robotic Handlings in Future Orbital Missions*. Her presentation was well attended and appreciated by many delegates.

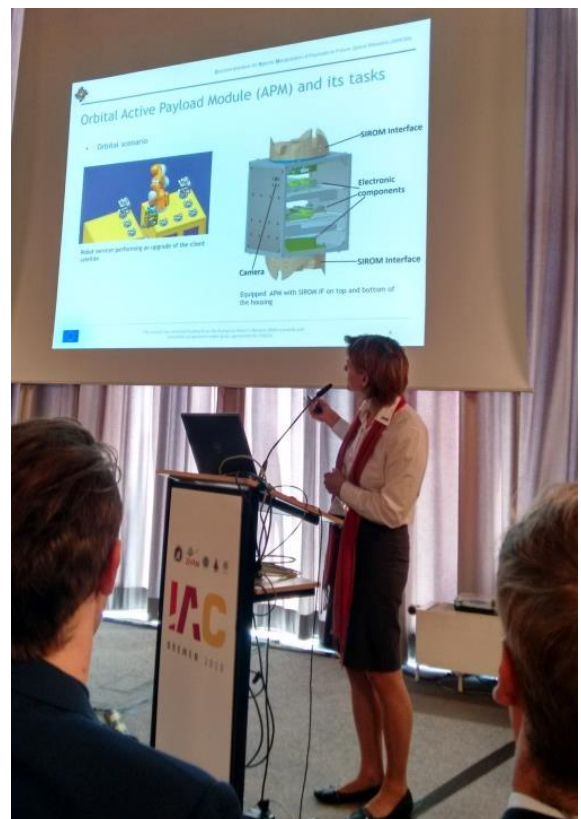


Photo 4 Ms. Brinkmann is presenting a paper entitled *Modular Active Payload Modules for Robotic Handlings in Future Orbital Missions*

Mr. Gonzalo Guerra Franco delivered the interactive presentation shown in Photo 5 on Multi-functional interface for flexibility and reconfigurability of Future European Space Robotic Systems. A number of questions were asked and a really good interaction took place during this presentation using the state of the art presentation facilities, including videos, animations and audio and more importantly live presentation.

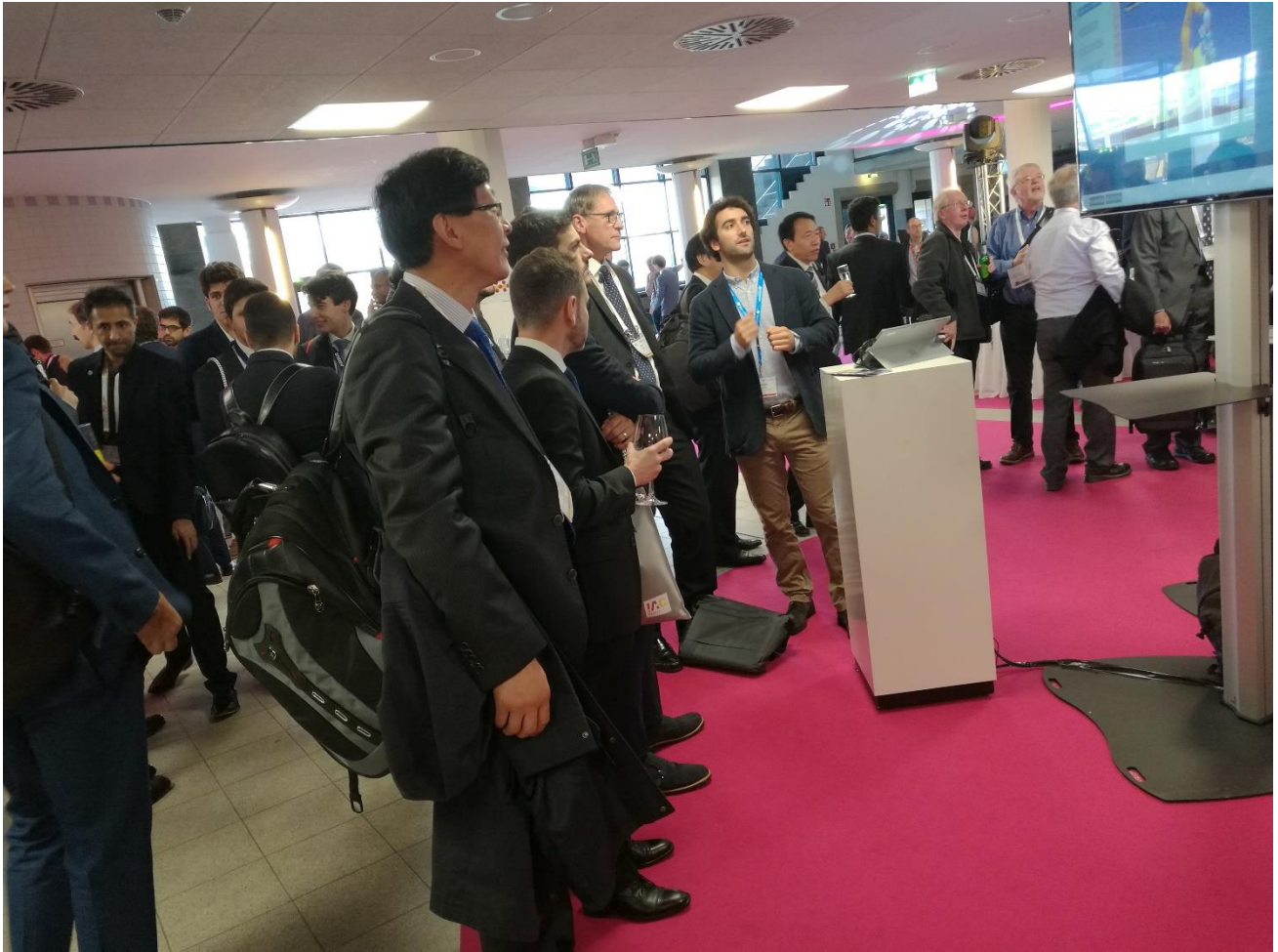


Photo 4. Interactive Presentation for paper entitled *future space missions with reconfigurable modular payload modules and standard interface – an overview of the SIROM project*