

IAF SPACE OPERATIONS SYMPOSIUM (B6)  
Interactive Presentations - IAF SPACE OPERATIONS SYMPOSIUM (IP)

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MISSION PLAN GENERATOR SYSTEM: SPECIFICATION, ADVANCES AND UPDATES

**Abstract**

In the creation of a short and long-term plan this tools are been used extensively in space industry. Here we aim a fresh approach development for a programming language that can be used successfully in space missions to improve efficiency in task selection and protocol computer assistance. Long-term missions are especially considered, where no much ground control can be implemented and should work on a base of automatic plan generation system. Since 2018, this system has passed several modifications and updates. Here we present the last advances that include the use of Machine Learning and Artificial Intelligence for controlling the mission. We discuss also possible modifications for the future schema.