

SMALL SATELLITE MISSIONS SYMPOSIUM (B4)  
Small Satellite Operations (3)

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SPACE OPERATIONS PLANNING SYSTEMS: A NEW APPROACH...

**Abstract**

This presentation aims at drawing the attention of the space and artificial intelligence communities to the need to improve the performance and productivity of operations planning systems for space missions, in general, and for space science missions, in particular. Such an improvement is mandatory if we want to meet the challenges imposed by the increase in the number and complexity of systems that control the execution of space missions (e.g. increase of automation and autonomy) in a shrinking budget environment. Money invested now will, in the future, either save money and/or enable us to reach higher objectives. This is an issue that is relevant for all types of missions, including small satellites missions, and can best be proven using small satellites. We introduce the work that we have done, so far, at RAL to reach this objective of improving the efficiency of operations planning systems. However, there is a lot that still needs to be done as well as a need for the community to act together in a coordinated manner.