



## Bachelor or Masters thesis

### Assessing the indirect impacts of conflict in space

Supporting Arms Control in Space (SACS) - Junior Research Group  
Faculty of Social Sciences & Faculty of Aerospace Engineering

#### Description of proposed topic

Space is rapidly becoming a field of conflict. The impact of a potential war in space would be huge. This impact can be distinguished between the direct costs (the costs e.g. of spacecraft destroyed in a conflict) and the indirect costs, i.e. the ripple-effects of the direct impacts, due to e.g. loss of critical infrastructure, environmental degradation due to space debris, and increased insecurity. These costs can be calculated using macroeconomic and engineering costing models.

#### Thesis topic

The interested student shall implement and use macroeconomic and engineering models to assess the indirect impacts of possible conflict in space.

#### Skills Required

- Motivation, creativity and enthusiasm for this crucial topic
- Basic knowledge of space engineering
- Basic programming knowledge (e.g. Python)
- Basic knowledge of macroeconomics (optional)

#### Supervisor

Dr.-Ing. Konstantinos Konstantinidis  
SACS Junior Research Group  
konstantinos.konstantinidis@unibw.de