



## CALL FOR PAPERS

**The 2020 AAS/AIAA Astrodynamics Specialist Conference  
Lake Tahoe Resort Hotel – South Lake Tahoe, CA**

**[ABSTRACT DEADLINE EXTENDED TO MAY 15, 2020](http://space-flight.org/docs/2020_summer/2020_summer.html)**

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### **Coronavirus (COVID-19) Update**

As the COVID-19 situation continues to evolve, the Summer 2020 AAS/AIAA Astrodynamics Specialist Conference organizers will continue to monitor the situation. To provide relief to those dealing with changing work circumstances, the abstract submission deadline has been extended to **Friday, May 15, 2020**. In the event that the COVID-19 situation prevents holding the conference in person, we are also discussing various options for hosting some type of a purely virtual conference and then publishing all accepted papers in the conference proceedings. Further information will be posted on our conference website as it becomes available.

Even if the conference is held in person, we are interested in experimenting with a small number of virtual presentations. If you are interested in presenting your paper as an interactive or virtual presentation, please indicate this on the abstract submission form.

The 2020 AAS/AIAA Astrodynamics Specialist Conference, hosted by the American Astronautical Society (AAS) and co-hosted by the American Institute of Aeronautics and Astronautics (AIAA) will be held August 9 - 13, 2020 at the Lake Tahoe Resort Hotel in South Lake Tahoe, California. This conference is organized by the American Astronautical Society (AAS) Space Flight Mechanics Committee and co-sponsored by the American Institute of Aeronautics and Astronautics (AIAA) Astrodynamics Technical Committee. Manuscripts are solicited on topics related to space-flight mechanics and astrodynamics, including but not necessarily limited to:

- Asteroid and non-Earth orbiting missions
- Atmospheric re-entry guidance and control
- Attitude dynamics, determination and control
- Attitude-sensor and payload-sensor calibration
- Dynamical systems theory applied to space flight problems
- Dynamics and control of large space structures and tethers
- Earth orbital and planetary mission studies
- Flight dynamics operations and spacecraft autonomy
- Orbital dynamics, perturbations, and stability
- Orbit determination and space-surveillance tracking
- Orbital debris and space environment
- Rendezvous, relative motion, proximity missions, and formation flying
- Reusable launch vehicle design, dynamics, guidance, and control
- Satellite constellations
- Spacecraft guidance, navigation and control (GNC)
- Space Situational Awareness (SSA), Conjunction Analysis (CA), and collision avoidance
- Trajectory / mission / maneuver design and optimization
- Technology Anniversary: Lessons Learned and Impact
- The history of Astrodynamics: Review of seminal astrodynamical, theoretical and practical developments

**Artemis Program Special Session:** In addition to the above general topics, papers are also solicited for a special session on the flight dynamics of NASA's Artemis Program, which includes research and development on the Space Flight System, Orion spacecraft, Lunar Gateway, as well as longer-term plans for crewed flights to Mars. Authors are asked to indicate on the abstract submission if you would like to be considered for inclusion in this special session. Manuscripts not selected for this special session will be allocated to other relevant sessions.

For complete details, please refer to the Call for Papers at:

[http://www.space-flight.org/docs/2020\\_summer/2020\\_summer.html](http://www.space-flight.org/docs/2020_summer/2020_summer.html)

The URL <https://www.xcdsystem.com/aas/abstract/index.cfm?ID=dVFkTca> will continue to accept abstract submissions until **15 May 2020, 20:00 Eastern Time.**

We greatly appreciate the wide distribution of this announcement to other colleagues that may be interested, and we look forward to your participation.

### **Conference Chairs**

#### AAS General Chair

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