



CALL FOR PAPERS

The 30th AIAA/AAS Space Flight Mechanics Meeting

Hyatt Regency Orlando, Orlando, FL

ABSTRACT DEADLINE: 11 June 2019

The 30th AIAA/AAS Space Flight Mechanics Meeting will be held January 6th-10th, 2020 at the Hyatt Regency Orlando in Orlando, Florida in conjunction with the AIAA Science and Technology Forum and Exposition (SciTech 2020). The conference is organized by the American Institute of Aeronautics and Astronautics (AIAA) Astrodynamics Technical Committee and co-sponsored by the American Astronautical Society (AAS) Space Flight Mechanics Committee. Manuscripts are solicited on topics related to space-flight mechanics and astrodynamics, including but not necessarily limited to:

- Artificial Intelligence in space flight mechanics
- Asteroid and non-Earth orbiting missions
- Attitude dynamics, determination and control
- Dynamical systems theory applied to space flight problems
- Dynamics and control of large space structures and tethers
- Low-thrust trajectory design and optimization
- Orbit determination and space-surveillance tracking
- Orbital dynamics, perturbations, and stability
- Rendezvous, relative motion, proximity missions, and formation flying
- Space Situational Awareness (SSA), Conjunction Analysis (CA), and collision avoidance
- Space trajectory design and optimization

Manuscripts will be accepted based on the quality of the extended abstract, the originality of the work and/or ideas, and the anticipated interest in the proposed subject. Submissions that are based on experimental results or current data, or report on ongoing missions, are especially encouraged. Complete manuscripts are required before the conference. English is the working language for the conference.

Additional and up-to-date information can be found at the conference website

<https://scitech.aiaa.org>; submit abstracts via the Papers/Presentations tab at that link.

SPECIAL SESSIONS

Proposals are being considered for suitable special sessions, such as topical panel discussions, invited sessions, workshops, mini-symposia, and technology demonstrations. Prospective special-session organizers should submit their proposals to the Technical Chairs well before the abstract deadline.



INFORMATION FOR AUTHORS

Because the submission deadline of 11 June 2019 has been fully extended for the convenience of contributors, there are no plans to defer this deadline due to the constraints of the conference planning schedule. Notification of acceptance will be sent via email by 30 August 2019. Detailed author instructions will be sent by email following acceptance. By submitting an abstract, the author affirms that the manuscript's majority content has not been previously presented or published elsewhere.

Authors may access the web-based abstract submittal system using the link available via the official website <https://scitech.aiaa.org>. During the online submission process, authors are expected to provide:

1. a paper title, as well as the name, affiliation, postal address, telephone number, and email address of the corresponding author and each co-author,
2. an extended abstract in the Portable Document File (PDF) format of **at least 1000 words** that includes the title and authors, and provides a clear and concise statement of the problem to be addressed, the proposed method of solution, the results expected or obtained, and an explanation of its significance to astrodynamics and/or space-flight mechanics, with pertinent references and supporting tables and figures as necessary, and,
3. a condensed abstract (100 words) to be included in the conference program, which is directly typed into the text box provided on the web page and avoids the use of special symbols or characters, such as Greek letters.

Foreign contributors requiring an official letter of acceptance for a visa application should contact the Technical Chairmen by email at their earliest opportunity.

Technology Transfer Notice - Technology transfer guidelines substantially extend the time required to review abstracts and manuscripts by private enterprises and government agencies. To preclude late submissions and withdrawals, it is the responsibility of the author(s) to determine the extent of necessary approvals prior to submitting an abstract.

No-Paper/No-Podium Policy – A complete manuscript must be electronically uploaded to the web site prior to the conference in PDF format, be no more than twenty (20) pages in length, and conform to the AAS manuscript format. If a complete manuscript is not received on time, then its presentation at the conference shall be forfeited; and if a presentation is not made by an author at the conference, then the manuscript shall be omitted from published proceedings.

Questions concerning the submission of manuscripts should be addressed to the technical chairs:

AIAA Technical Chair

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All other questions should be directed to the General Chairs:

AIAA General Chair

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