

The Seventh

# INTERNATIONAL CONFERENCE ON TETHERS *in* SPACE

Hosted by York University, Toronto, Canada

June 2-5, 2024

## Call for Papers



### IMPORTANT DATES

2023.12.04 2024.01..31	Abstract submission deadline
2024.02.04 2024.02.15	Abstract acceptance notification
2024.03.04 2024.04.15	Early-bird registration deadline
2024.04.04 2024.06.05	Regular registration deadline
2024.05.01	Final paper submission deadline
2024.06.2-5	Conference dates
2024.07.01	Selected paper submission to Special Issue, Acta Astronautica

### CONFERENCE CHAIRS

#### CONFERENCE CHAIR

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Toronto, Ontario, Canada

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### CONTACT

**Secretary:** Qi Zhang, qi95@yorku.ca  
Conference Website:  
<https://lassonde.yorku.ca/conf/tis2024/>

### Topics of Interest

#### Fundamental Research on Space Tethers

- Mathematical Modeling of Space Tethers, Dynamics, Controls
- New Materials for Tether Applications
- Space Elevator
- Tethers for Artificial Gravity

#### Space Tether Technology Development and Experimental Studies

- Space Tethers for Space Environments Research
- Novel Science Measurements Using Tether Technology
- Subsystem Technologies to Enable Space Tether Missions

#### Tether Propulsion and Energy Generation

- Electrodynamic and Momentum Exchange Tether Propulsion
- Electric Sails for Interplanetary Exploration and Science
- Tether-based Propulsion Systems for Small Satellites
- Tether Power Generation and Energy Harvesting

#### Mission Concepts and Enabled Missions

- Tether Formation Flying, Space Net, and Enabled Missions
- Tethered Satellite Constellations for Global Communication or Remote Sensing
- Tethers for Atmospheric Research and Climate Monitoring from Space
- Subsystem Technologies to Enable Space Tether Missions
- Lessons Learned from Past Missions
- Other Advanced Tether Concepts

#### Space Environment Research

- Space Tethers for Space Environments Research
- Tether-based Systems for Space Debris Remediation
- Novel Science Measurements Using Tether Technology
- Tethers for atmospheric research and monitoring
- Novel Science Measurements Using Tether Technology

#### Planetary Exploration and Utilization

- Tethered Spacecraft for Asteroid or Comet Exploration and Mining
- Tethers for In-situ Resource Utilization in Space
- Tethers for Space-based Construction and Assembly
- Tether Applications for Planetary Entry, Descent, and Landing

Submissions reporting experimental results, current data, and ongoing missions are of interest, as are contributions from industry, government, and academia. Multidisciplinary efforts and international collaborations are encouraged. Manuscripts must be written in English, which is the working language of the conference. The conference website at <https://lassonde.yorku.ca/conf/tis2024/> provides up-to-date information and links to the abstract and manuscript submission process.