

# STINT 2023

In association with



**STINT Workshop**  
**September 6-8**  
**Aveiro, Portugal**

Co-located with  
IEEE WiSEE 2023

Keynote speakers



TBD  
TBD



TBD  
TBD

Sponsors:



**Steering Committee:**

Edward J. Birrane, APL, USA  
Carlo Caini, U. Bologna, ITA  
Juan Fraire, Inria/Conicet, FRA  
Marius Feldmann, D3TN, GER  
Scott C. Burleigh, JPL, USA

2023

# Space-Terrestrial Internetworking **STINT Workshop**

Call for Papers

Steering Committee:

Edward J. Birrane (APL), Carlo Caini (U. Bologna), Juan Fraire (Inria/CONICET), Marius Feldmann (D3TN), Scott Burleigh (former JPL),

## Workshop Scope and Overview

The Space-Terrestrial Internetworking (STINT) Workshop addresses emerging technical topics related to data exchange between and amongst space-based and terrestrial network nodes. Such communications systems are generally based on the adoption of DTN (Delay-/Disruption-Tolerant Networking architecture) and its related protocols, including the Bundle Protocol (BP) and the Licklider Transmission Protocol (LTP). They accept space assets as first-class nodes performing network functions, including stateful packet inspection, routing, management, and security.

Bringing together some of the most influential members of the field of data transfer between space and terrestrial nodes via delay-tolerant networks with time-varying topologies, STINT seeks contributions with a clear focus on packetized, multi-path, and multi-hop data exchange between and among space-based and terrestrial (plus planetary) network nodes.

Full research papers are solicited for the protocols, applications, and operational concepts required to make these internetworks technically feasible and operationally deployable. Specifically, STINT welcomes researchers and practitioners in the following areas (not exclusive list).

- Solar system Internet
- Interplanetary networking.
- Mars Communications (networking aspects)
- Lunar Communications (networking aspects)
- Satellite networks
- Integration of Satellite and IoT networks based on the bundle protocol with BPv7
- Satellite and terrestrial networks for emergency communications
- DTN architecture
- Bundle protocolBPv7 applications (performance, security, implementations, tests, etc.)
- Bundle Routing (CGR/SABR, interregional routing, others)
- LTP protocol (performance, security, implementations, tests, etc.)
- DTN applications for use with BPv7 networks
- Applications of BPsec and BPsec Security Contexts
- Delay-Tolerant Network Management
- Delay-Tolerant Key Management
- Time-Variant Routing strategies
- Naming and addressing in BPv7 networks

## Format and Submission Instructions

STINT follows the guidelines for paper submissions from [WiSEE 2023](#):

- Full papers (up to 6 pages) with a verbal presentation are considered.
- Papers must be written in English and prepared in Portable Document Format (PDF).
- Papers must be formatted according to the standard IEEE two-column format with single-spaced, ten-point font text, as given in the IEEE templates.
- All figures, tables, references, etc., are included in the page limit.
- All fonts must be embedded into the PDF file.
- All papers must be submitted online via WiSEE's website