

The Bradford-Renduchintala Centre for Space AI



The 40th ICSSC Colloquium on Direct Satellite to Cellular Mobile Services

23 October 2023 Norcroft Centre, University of Bradford, UK

Opening by the ICSSC 2023 Executive Chair Murthy Renduchintala (Accenture, USA), and Professor Shirley Congdon (Vice Chancellor, University of Bradford).

Co-Chairs Rajeev Gopal (Hughes, USA), Glyn Thomas (Airbus, UK)

- Session 1 Keynote Direct-to-Cell Keynote: Global Connectivity Challenges and Opportunities
- Session 2 Panel Innovative Use Cases Possible with Megaconstellations
- Session 3 Panel Direct-to-Cell Services Business and Strategy
- Session 4 Technical Insights with Cross Plane/ Layer Designs and Future Advances
- **Session 5 Keynote** Regulatory and Governance Challenges.

Attendees from industry, academia, and space agencies across the world, including NASA, VIASAT, ESA, UKSA, OneWeb, Hughes, and Airbus

Keynotes and Panels include Jon Wakling (BT), Alessandro Le Pera (Eutelsat), Joel Grotz (SES), Klaus Michel (Airbus), Didier Le Boulc'h (Thales Alenia Space), Bertrand Onillon (Thales Alenia Space), David Zufall (Dish), Robert Rehg (Echostar), Paul Febvre (Satellite Applications Catapult).



This includes access to Colloquium, coffee breaks, and lunch.



The 28th Ka and Broadband Communications Conference (Ka) and the 40th International Communications Satellite Systems Conference (ICSSC)

24-26 October 2023 Midland Hotel, Bradford, UK

Theme: Artemis: Advancing Game Changing Communications and Navigation Technology

ICSSC Executive Chair Murthy Renduchintala (Accenture, USA)

Keynotes

- Keynote 1 ARTEMIS Mission Update, Steve Creech, Moon to Mars Program Office Deputy, NASA, USA.
- **Keynote 2** Communication and Navigation Services for Lunar Missions: the ESA Moonlight Program, Pietro Giordano, Radio Navigation Department, ESA, The Netherlands.

Plenary Panels

- Plenary Panel 1 Artemis: Advancing Game Changing Communications and Navigation Technology, chaired by Badri Younes, Senior Advisor on Communications and Navigation Capabilities, Operation and Technology, NASA, USA.
- Plenary Panel 2 3GPP Lunar Comm and Navigation, chaired by Greg Heckler, Commercial Communications Services Division Director, SCaN Program, NASA, USA.
- Plenary Panel 3 Non-Terrestrial Networks: Systems and Services from 5G to 6G, chaired by Barry Evans, University of Surrey, UK.

Technical Program

Featuring 100 papers presented in 22 technical sessions.

Special Events

- Special Session 10 years of Alphasat Aldo Paraboni Q/V Band Experiment, Mission Evolution and Results, chaired by Tommaso Rossi, University of Rome Tor Vergata, Italy, and Giorgia Parca, ASI, Italy.
- Panel Session NASA's Communications Services
 Project (CSP), chaired by Peter J. Schemmel,
 Deputy Chief of Space Communications and
 Spectrum Management Office and Manager of the
 Communication Services Project (CSP), NASA, USA.
- 19th BroadSky Workshop chaired by Naoto Kadowaki, NICT, Japan.
- 9th General Assembly of Aldo Paraboni
 Experimenters Group chaired by Carlo Riva,
 Polytechnic of Milan, Italy and Antonio Martellucci,
 ESA, The Netherlands

Registration fee US\$1700

This includes access to the Conference, uploading of one paper, conference dinner and cocktail reception, access to the online proceedings, and coffee breaks and lunch on the conference days.

The 2023 SatNEx School: Al for Satellite Systems

24-26 October 2023 Norcroft Centre, University of Bradford, UK

Day 1

- Future Concept of Distributed Satellite Systems
- Evolution of AI in Satellite Systems
- Al Enhancement in Satellite Communications
- Al in Active Electronically Steerable Array (AESA) Antennas for MIMO Satellite Communications
- Not Only Image Exploitation: Applications of AI in Satellite Ground Segment
- Al Applications in Satellite Systems

Day 2

- Applications of AI in EO Data Analytics
- Applications of Al in Space Mission and Space Weather Events
- Application of Al in Rain Fade Mitigation on Satellite Links
- High Bandwidth mmWave Feeder Links for LEO Constellations for Future 5/6G Telecommunications Networks
- How the Experimentation Mindset Fosters Innovation
- Company Visit (Filtronics @ Bradford)

Day 3

- Federated Learning in Satellite Systems
- Al and Edge Computing for 6G NTNs
- Intelligent Spacecraft Payload Design
- PocketQube Design Workshop

Speakers from ESA, Airbus, Filtronic, VIASAT, and Satellite Applications Catapult. Attendees from industry, research institutions, and universities in Europe.

Registration Fee: £150

This includes access to the SatNEx School, coffee breaks, lunch and dinners.







Sponsorship Packages

for 40th ICSSC Colloquium and SatNEx School

GOLD £3,500

- * Logo or name on event website, social media, press release
- * Listing in both events' programme as Lead Sponsors
- * Full page advertisement in the delegate pack
- * 3 people free entry to the colloquium (worth £885)
- * Physical display as Lead Sponsor for the events (1 table, 2 chairs and display space)

SILVER £2,500

- * Logo or name on event website, social media, press release
- * Listing in both events' programme
- * Half page advertisement in the delegate pack
- * 3 people free entry to the colloquium (worth £885)
- * Physical display as Sponsor for one of the coffee, lunch breaks or dinners

BRONZE £1,500

- * Logo or name on event website, social media, press release
- * Listing in both events' programme
- * Half page advertisement in the delegate pack
- * 3 people free entry to the colloquium (worth £885)

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