CONFERENCE BAASP 2025
1st ANNOUNCEMENT

We invite you to participate in the **9th International Scientific Conference "Baltic Applied Astroinformatics and Space Data Processing" (BAASP)**, which will be held **November 12th – 13th, 2025**, organized by the **Engineering Research Institute "Ventspils International Radio Astronomy Centre"** of **Ventspils University of Applied Sciences**. The conference will take place **in-person**. **The participation fee is 100 €**.

Aim of the BAASP Conference Cycle

The BAASP Conference Series serves as a platform for establishing and strengthening cross-border partnerships and knowledge exchange interntionaly in the Baltic region and globally. These conferences unite **astronomers, space researchers and engineers**, as well as experts in related disciplines including **informatics, electronics, satellite technologies, geodesy, remote sensing, and environmental sciences**.

Conference Theme

Space science is increasingly driven by the Big Data requiring robust **data acquisition, management, processing, and interpretation** capabilities. The **interdisciplinary nature** of astroinformatics combines space science with high-performance computing, AI, and machine learning, leading to breakthroughs in observational astronomy, satellite technologies, and Earth-space interactions.

In recent years, Europe has continued to play an important role in next-generation astronomy. The continued expansion of the **Low Frequency Array (LOFAR),** antenna array telescope network across the continent, including the Baltic region, has enabled high-resolution studies of cosmic magnetism, solar activity, and transient radio phenomena. The **European VLBI Network (EVN)** has further enhanced its real-time e-VLBI capabilities and broadband sensitivity, with support from UK-based facilities such as **Jodrell Bank and e-MERLIN**. These advancements have contributed significantly to the precise localization of fast radio bursts and compact extragalactic sources.

Technical developments also facilitate automated, rapid-response observation modes, which are essential to advancing multimessenger astronomy. This emerging field integrates radio, optical, gravitational wave, and neutrino data to probe energetic cosmic events such as neutron star mergers and magnetar outbursts.

Concurrently, breakthroughs in AI-driven data mining, edge computing for satellite payloads, and quantum-enhanced algorithms are opening new frontiers in real-time analysis and autonomous decision-making for both Earth observation and deep-space missions. Meanwhile, the growing use of CubeSats and modular satellite platforms is reshaping the landscape of low-cost, high-impact space research, demanding new models for data integration, security, and interoperability across domains.

BAASP 2025 will continue the dialogue on how emerging technologies transform **astronomy**, **space science, geoscience, and remote observation**.

Scope of the Conference

BAASP 2025 will focus on both **fundamental** and **applied research**, with the following key areas (pannels):

- **Astrophysics & Radio Astronomy**: Observational data acquisition, processing, interpretation and theoretical modelling of astrophysical processes.
- **Near-Earth Space Research**: Studies of solar-terrestrial interactions, space weather, and anthropogenic impacts on near-Earth environments.
- **Space Technologies**: Developments in satellite systems, communication technologies, space instrumentation, and advanced front-back-end solutions in radio astronomy. Processing and interpretation of data from Earth observation, planetary missions, and solar system object monitoring, supporting both scientific inquiry and societal applications.

Publication Opportunities

We intend to provide publishing opportunities for selected papers in peer-reviewed journals that are indexed in SCOPUS and WoS. An additional publishing fee may be requested.

Working Language

The working language of the Conference is **English**.

Important Dates

First announcement	Jul 08
Second announcement; registration and abstract submission opened	Aug 08
Abstract submission closed (final submission deadline)	Oct 03
Abstract acceptance	Oct 17
Registration closed	Oct 26
3rd Announcement and preliminary program	Nov 07
Conference BAASP	Nov 12 – 13
Submission of conference manuscripts for publication closed	Jan 11, 2026

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Dr.phys. Ivar Shmeld	Ventspils University of Applied Sciences	Latvia
Ph.D. Artis Aberfelds	Ventspils University of Applied Sciences	Latvia
Dr. Dainis Dravins	Lund Observatory	Sweden
Dr.phys. Ilgmārs Eglītis	University of Latvia	Latvia
Dr. Marcin Gawroński	Nicolaus Copernicus University in Toruń	Poland
Prof. Leonid Gurvits	Delft University of Technology, Academician IAA	The Netherlands
Ph.D. Juha Kallunki	Helsinki Metropolia University of Applied Sciences	Finland
Dr.phys. Juris Kalvāns	Ventspils University of Applied Sciences	Latvia

Dr.sc.ing. Janis Kaminskis	Riga Technical University	Latvia
Dr.phys. Dmitrii Kolotkov	University of Warwick	United Kingdom
Dr. Mikhail Ryabov	Radio Astronomical Institute National Acad. Sci.	Ukraine
Dr.phys. Boris Ryabov	Ventspils University of Applied Sciences	Latvia.
Ph.D. Andris Slavinskis	Riga Technical University	Latvia
Prof. Agnieszka Slowikowska	Joint Institute for VLBI ERIC	The Netherlands
Dr. Jelena Tamuliene	Vilnius University	Lithuania
Ph.D. Oleg Ulyanov	Institute of Radio Astronomy National Acad. Sci.	Ukraine

Conference home page: en.venta.lv/baasp2025

E-mail: **BAASP2025@venta.lv**

We are looking forward to welcoming you to the BAASP 2025 and to fruitful scientific exchange in the fields shaping the future of astronomy space research.