



IEEE Space Hardware and Radio Conference

22 – 25 January, 2023, Planet Hollywood Hotel, Las Vegas, NV USA



IEEE



<https://www.radiowirelessweek.org/>

Paper Deadline
25 July 2022

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Call For Papers

The 2023 IEEE Space Hardware and Radio Conference (SHaRC 2023) will be a part of 2023 IEEE Radio and Wireless Week (RWW 2023) which will be held during the week of 22 – 25 January, 2023 in Planet Hollywood Hotel, Las Vegas, NV USA.

RWW 2023 will also feature:

- IEEE Radio and Wireless Symposium (RWS)
- 22nd Topical Meeting on Silicon Monolithic Integrated Circuits in RF Systems (SiRF)
- IEEE Topical Conference on Wireless Sensors and Sensor Networks (WiSNet)
- IEEE Topical Conference on RF/Microwave Power Amplifiers for Radio and Wireless Applications (PAWR)
- Special Sessions, Short Courses, and a Design Competition

Each of these events will be organized separately, with their own call for papers found at <http://www.radiowirelessweek.org/>.

The **IEEE Space Hardware and Radio Conference (IEEE SHaRC)** addresses new concepts, novel implementations, as well as emerging applications for space-based electronic systems for communications, earth observation, and other novel disruptive services. To meet recent needs, there has been a renaissance of interest and investment in space- and suborbital-based systems especially for high-data-rate communications networks. These new global satellite networks are disruptive, rely on new system and subsystem design paradigms, and are an enabler for many novel applications. The IEEE Space Hardware and Radio Conference provides a forum for discussions on this new frontier.

Papers featuring innovative work are solicited in (but not limited to) the following areas of the space hardware and systems:

- Manufacture and Deployment of LEO satellite constellations and formations
- Lower-Cost Alternatives
- Unmanned Air Systems
- Terrestrial Systems & Ground Stations
- CubeSat Hardware and Systems
- Satellite and Balloon Concepts
- Small and Micro-Satellite Design
- Orbital Configurations & Operations
- Radiation Effects
- Phased Arrays
- High Data Rate Links
- Geolocation
- Earth Observation
- Frequency Spectrum Allocations
- International Regulations & Standards
- SIGHT Applications of the IoS

SHaRC 2023 Chair

Markus Gardill, *Brandenburg University of Technology*

SHaRC 2023 Co-Chair

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Paper submission instructions can be found at <http://www.radiowirelessweek.org/>. Submissions should be formatted according to the submission review template available on the RWW website. Authors should indicate preference for oral or poster presentation. All submissions must be received by **25 July 2022**. All accepted papers will be published in a digest and included in the IEEE Xplore® Digital Library. Submissions will be evaluated based on novelty, significance of the work, technical content, interest to the audience, and quality of writing.