



# IEEE Space Hardware and Radio Conference

16-19 January 2022, Caesars Palace Hotel, Las Vegas, NV USA



IEEE



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

Paper Deadline  
25 July 2021

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## Call For Papers

The 2022 IEEE Space Hardware and Radio Conference (SHaRC 2022) will be a part of 2022 IEEE Radio and Wireless Week (RWW 2022) which will be held during the week of 16 January 2022 in Las Vegas, NV, USA.

RWW 2022 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 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 hardware 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:

- Cubesat, Micro- and Small-Satellite Hardware and Systems
- Satellite, High-Altitude Balloon and UAV Systems, Networks & Concepts
- Ground Stations, Terrestrial Systems and Mobile Communications Integration
- Space Electronics & Radiation Effects
- Antennas, Antenna Arrays and Multi-Antenna Systems
- Communication Systems, Inter-Satellite- and High-Data-Rate Links
- Mission Concepts, Large Constellations, Orbital Configurations & Operations
- Geolocation & Satellite Navigation
- Sensing and Earth Observation
- Frequency Spectrum Allocations, International Regulations & Standards

### SHaRC 2022 Chair

Markus Gardill, *Julius-Maximilians-University Würzburg*

### SHaRC 2022 Co-Chair

Maximilian C. Scardelletti, *NASA Glenn Research Center*

Authors of papers presented at RWW 2022 will be invited to submit an expanded version to the **IEEE T-MTT Mini-Special Issue**.

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 2021**. 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.