

IEEE Space Hardware and Radio Conference (SHaRC 2021)

17-20 January 2021, San Diego, CA USA

Hard Rock Hotel



IEEE



IEEE SHaRC

Paper Deadline
24 July 2020

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Call For Papers

The 2021 IEEE Space Hardware and Radio Conference (SHaRC 2021) will be a part of 2021 IEEE Radio and Wireless Week (RWW2021) which will be held the week of 17 January 2021 in San Diego, CA, USA.

RWW2021 will also feature:

- IEEE Radio and Wireless Symposium (RWS)
- 21st 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)
- Focus sessions on 5G and MM-Wave to THz Technologies and Applications

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, and many applications are feasible: e.g. the creation of a worldwide car-to-car communications network or global sensor & control systems for autonomous vehicles. 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 Large LEO Satellite Constellations (1000 to 4000 Satellites)
- Lower-Cost Alternatives
- Unmanned Air Systems
- Terrestrial Systems
- 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 2021 Co-Chairs

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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 **24 July 2020**. 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 presentation.