

The IEICE Transactions on Communications announces that it will publish a special section entitled “Special Section on New era of Satellite Communication/Broadcasting/Application Technologies” in the October 2020 issue.

Satellite communications have been mainly used for disaster-relief communications, backup communications and/or mobile communications on maritime ships and airplanes. Recently, due to remarkable technology progress on both satellite and terrestrial stations, HTS (High Throughput Satellite) systems consisting hundreds of multi-beams and/or thousands of small satellites have started to provide broadband services for earth stations in motions and as backhaul for cellular phone. On the other hand, as for satellite broadcasting, 4K/8K special technologies have been studied so as to be standardized. Its TV services will be widely spread all over the Japan toward 2020. Further, these developed technologies are applied to many other use for such as UAS (Unmanned Aircraft System), HAPS (High Altitude Platform System), Monitoring system using AIS (Automatic Identification System) and so forth.

This special section will provide an opportunity to summarize the recent research output on satellite communication/broadcasting/application technologies. Your contribution to this special section would be greatly appreciated.

1. Scope

This special section aims at timely dissemination of research in these areas. Possible topics include, but are not limited to:

- Satellite communications (fixed-satellite communications, mobile satellite communications, inter-satellite communications, optical satellite communications, deep space communications, HTS, MEO, LEO)
- Satellite broadcasting (BS, mobile broadcasting, 4K/8K)
- Satellite applications (Unmanned aircraft communications system, HAPS, AIS, Positioning)
- Others on the elementary technologies, the system/earth station technologies, the onboard technologies and the applications concerning the above topics.

2. Submission Instructions

The standard number of pages is 8. The page charges are considerably higher for extra pages. Manuscripts should be prepared according to the guideline in the “Information for Authors.” The latest version is available at the web site, http://www.ieice.org/eng/shiori/mokuji_cs.html. The term for revising the manuscript after acknowledgement of conditional acceptance for this special section could be shorter than that for regular issues (60 days) because of the tight review schedule.

This special section will accept papers only by electronic submission. Submit a manuscript and electronic source files (LaTeX/Word files, figures, authors' photos and biographies) via the IEICE Web site https://review.ieice.org/regist/regist_baseinfo_e.aspx by October 1, 2019 (JST). Authors should choose the [Special-CB] Special Section on Satellite Communication/Broadcasting/Application Technologies as a “Journal/Section” on the online screen. Do not choose [Regular EB] .

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