

Special Issue

Advanced Satellite Communications for Engineers and Scientists

Message from the Guest Editor

Satellite-based information transmission has long served as a major technology, enabling communications and broadcasting services over the past several decades. The main advantage of satellites is their extensive coverage across vast regions of the Earth. Practically, global coverage can be achieved using three geostationary satellites. This reduces the required energy, and hence, the cost of per bit transmission, which is particularly true for broadcasting services. A disadvantage of traditional satellite communication systems, particularly those using large geostationary satellites, is their high delay and power attenuation caused by their significant distance (36,000 km) from the Earth. The substantial delay hinders the use of satellite communications for delay-sensitive real-time applications. The loss in power necessitates the use of large handsets, thereby making it challenging to use satellite communications for mobile or personal communications.

Guest Editor

Prof. Dr. Mohammad Reza Soleymani

Department of Electrical and Computer Engineering, Concordia University, 1455 Blvd. De Maisonneuve Ouest, Montreal, QC H3G 1M8, Canada

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Aerospace
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
aerospace@mdpi.com

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Editor-in-Chief

Prof. Dr. Konstantinos Kontis
School of Engineering, University of Glasgow, James Watt Building
South, University Avenue, Glasgow G12 8QQ, Scotland, UK

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