

Special Issue

Channel Estimation and Adaptive Modulation

Message from the Guest Editors

Channel estimation (CS) and adaptive modulation (AM) are key physical layer techniques to enhance spectral efficiency over time/frequency/spatial variant channels while maintaining a target error rate. At present, these tasks have to be performed in communication channels with a large variety of characteristics, which range from channel response sparsity, as in the upcoming fifth-generation (5G) millimeter-wave communications; extremely rapid channel response variations, as in underwater acoustic (UWA) and vehicle-to-everything (V2X) communications; and cyclostationary noise, as in power line communications (PLC), just to mention a few examples. The diversity of system features and operation modes (e.g., massive MIMO and in-band full-duplex), receiver architectures (e.g., iterative architectures), network configurations (e.g., relay networks), and processing techniques (e.g., machine learning) have also widened the catalogue of CS and AM strategies and methods. This Special Issue is aimed at collecting high-quality contributions addressing CS and AM problems in all communication scenarios. Detailed information: https://www.mdpi.com/journal/electronics/special_issues/CS_AM

Guest Editors

Prof. Dr. José Antonio Cortés Arrabal

Departamento de Ingeniería de Comunicaciones, E.T.S.I.
Telecomunicación, University of Málaga, Málaga, Spain

Prof. Dr. Eduardo Martos-Naya

Departamento de Ingeniería de Comunicaciones, E.T.S.I.
Telecomunicación, University of Málaga, Málaga, Spain

Deadline for manuscript submissions

closed (30 November 2021)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



[mdpi.com/si/49963](https://www.mdpi.com/si/49963)

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

[mdpi.com/journal/
electronics](https://www.mdpi.com/journal/electronics)





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)



About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di
Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPus /
SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /
CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 16.4 days after
submission; acceptance to publication is undertaken in 2.6
days (median values for papers published in this journal in
the second half of 2025).