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The Advances in Algebraic Coding Theory

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Deadline for manuscript submissions:
closed (31 August 2023)

Message from the Guest Editors

Dear Colleagues,

Coding Theory covers several topics and is a widely studied multidisciplinary subject, involving techniques from computer science, engineering, information theory and mathematics.

From both a theoretical and a computational point of view, algebra has established itself as one of the main reference areas in researching codes, their properties, encoding and decoding algorithms and other related aspects of Coding Theory. The continuous development and increasing relevance of digital data utilization makes Coding Theory a research field of primary interest that needs constant study and updates for keeping up with the technological demands of modern society. In particular, it is essential that messages reach the destination correctly, without errors that can occur due the presence of noise in the communication channel. Therefore, error correction codes are necessary in order to obtain efficient methods for detecting and correcting as many errors as possible.

The aim of the present Special Issue is to encourage the study of algebraic topics related to coding theory, as well as the development of new techniques for detecting and correcting errors...

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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