



## Advanced Coding and Stochastic Signal Processing in Dense Communication Networks

Guest Editor:

**Prof. Dr. Jan Sykora**

Faculty of Electrical Engineering,  
Czech Technical University in  
Prague, Technická 2, 160 00  
Prague, Czech Republic

jan.sykora@fel.cvut.cz

Deadline for manuscript  
submissions:

**closed (31 October 2022)**

### Message from the Guest Editor

Advanced coding and stochastic signal processing are key enabling techniques for reliable communications in dense, highly interfering wireless communication networks. The dense networks are defined as multi-node/user wireless network scenarios where mutual signal interaction is a predominant limiting factor. This situation requires that the coding and processing fully exploits the knowledge of the interaction structure and form, together with the network topology, and uses it proactively in the distributed processing algorithms on all network nodes. Frequently, these communication networks are used as a part of some control or sensing network data-processing algorithm or physical device/machinery control loop.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Francisco Chiclana**  
School of Computer Science and  
Informatics, De Montfort  
University, The Gateway,  
Leicester LE1 9BH, UK

## Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

## Author Benefits

**Open Access:**— free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

**Journal Rank:** JCR - Q1 (*Mathematics*) / CiteScore - Q1 (*General Mathematics*)

## Contact Us

---

*Mathematics*  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/mathematics  
mathematics@mdpi.com  
@MathematicsMDPI