



an Open Access Journal by MDPI

Forward Error Correction for Optical CDMA Networks

 \cap

Guest Editor:

Message from the Guest Editor

Dr. Stephanie Sahuguede CNRS, XLIM, UMR 7252, University of Limoges, 87000 Limoges, France

Deadline for manuscript submissions: closed (15 August 2023) ptical networks have been studied for many years, offering high data rate transmissions capability due to large bandwidth. Originally developed for optical fiber medium, optical communications have gained interest in wireless optical networks, based on free space optics (FSO), underwater communications, or short distance indoor communications.

Optical Code-Division Multiple-Access (OCDMA) technique has been identified as a promising solution to provide multiple access. However, OCDMA introduces Multiple-Access Interference (MAI), but also beat noise due to the multiple optical fields incident to the receiver, especially for high data rates. Although interference limitation or cancellation techniques can be used to reduce MAI impact, Forward Error Correction (FEC) is a good candidate in order to compensate for degradation due to both interference and noise sources.

This Special Issue will collect new ideas in the field of error correction codes and describe promising FEC methods for Optical CDMA networks. Contributions addressing both error correction techniques applied to physical layer or higher-level mechanism are welcome in this context.



mdpi.com/si/158320







an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Kevin H. Knuth

Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

Entropy is an online open access journal providing an advanced forum for the development and/or application of entropic and information-theoretic studies in a wide variety of applications. *Entropy* is inviting innovative and insightful contributions. Please consider *Entropy* as an exceptional home for your manuscript.

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), Inspec, PubMed, PMC, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (*Physics, Multidisciplinary*) / CiteScore - Q1 (*Mathematical Physics*)

Contact Us

Entropy Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/entropy entropy@mdpi.com %@Entropy_MDPI