

Abstract

1. A very short overview of the History of Scientific Publishing with some Springer examples is given.

"Numerische Mathematik" was the first of all SpringerNature Journals ever, over all disciplines to go online in 1994.

2. The change of the World of Publishing: Generating (Scientists), Composing (Publishers and Scientists) and Disseminating (Librarians and Publishers) Mathematical Content in electronic form. TeX and "Online Visibility" are the buzzwords here since more 35 years

3. Open Access for all mathematical content? Initiatives like "Overlay Journals", based on the arXiv, are briefly discussed, as well as the more recent Sci-Hub initiative. Recent activities in OA, eg at zbMATH will be discussed in more detail.

4. Keep track of what has been published and cited. MathSciNet and zbMATH - which is OA since January 2021- are the two big Math Review Journals. There are other initiatives, like Google Scholar, Scopus, and Web of Science. An initiative from China? MathSciDoc.

5. Recent developments in the Dissemination of Scientific Information are discussed. Social Media{Scholarly Collaboration Networks (SCN)} in Scientific Communication like Research Gate

are briefly reflected.

The big Challenge and Opportunity for the Scientific Community:

Plan S and the Deal give a reason for a controversial dispute.

Artificial Intelligence, ChatGPT-4 and some hope for the future will close the presentation.