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IPS Paper

Ever more transparent, accessible, and reproduceable? The impact of Open Access, Open Data, and FAIR publishing principles on data-driven research

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Brief Description

Open Access, Open Data, and FAIR publishing principles revolutionize how academic research is disseminated and published.

This is especially true for the ways in which research data and statistical information are created, annotated, curated, managed, shared, reproduced, (re-)used, and further developed.

Greater accessibility of scientific output, scholarly data and official statistics aims at increasing the transparency and reproducibility of research results and the quality of research.The present paper discusses main objectives of and key assumptions related to the impact of these developments on the dissemination of research data and statistical information, on statistical and data literacy requirements in science, and on the overall quality of data science and data-driven research.

Abstract

Open Access, Open Data, and FAIR publishing principles revolutionize how academic research is disseminated and published. This is especially true for the ways in which research data and statistical information are created, annotated, curated, managed, shared, reproduced, (re-)used, and further developed. Greater accessibility of scientific output, scholarly data and official statistics aims at increasing the transparency and reproducibility of research results and the quality of research. The present paper discusses main objectives of and assumptions related to the impact of these developments on the dissemination of research data and statistical information, on statistical and data literacy requirements in science, and on the overall quality of data science and data-driven research.