

# 10th International Conference "Distributed Computing and Grid Technologies in Science and Education" (GRID'2023)



Contribution ID: 299

Type: **not specified**

## Designing a system for monitoring the publication activity of the scientific organization's researchers.

*Thursday, 6 July 2023 18:00 (15 minutes)*

The modern world every day is subjected to the digitalization in various spheres of life, due to the need to introduce more efficient and accurate methods of handling data. This paper focuses on the development of a system that can track the publication activity of researchers in a scientific organization. The system is developed in the framework of the project to track the publication activity of the staff of the Joint Institute for Nuclear Research. Key components of the architecture were tested in the framework of this project, namely, methods of programmatic data collection and processing, creation of a data lake and construction of an analytical panel with typical visualizations. Data were collected on 36,785 scientific publications and on 10,245 authors. Once collected, methods and software tools were used to process and saturate the data, such as identifying geo-data of author affiliations or selecting text keywords. The result is an interactive dashboard displaying typical visualizations from a pie chart to an author affiliation map that help to track the publication activity of the scientific organization's researchers.

### Summary

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**Session Classification:** Big Data, Machine Learning and Artificial Intelligence

**Track Classification:** Big Data, Machine Learning and Artificial Intelligence