

# **Altmetrics: Rethinking and Exploring New Ways of Measuring Research Outputs**

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## **Abstract**

Altmetrics has appeared as an alternative, non-traditional metrics to the commonly used metrics to measure research impact. Altmetrics was first proposed in 2010 as a generalization of article-level metrics, and has its roots in the Twitter #altmetrics hashtag. Although altmetrics are often thought of as metrics about articles, it can be applied to people, journals, books, data sets, presentations, videos, source code repositories, web pages, etc. Altmetrics covers not just citation counts, but also other aspects on the impact of a work (e.g. such as how many data and knowledge bases refer to it, article views, downloads, or mentions in social media and news media).

We will design, develop and evaluate a system prototype called **ARIA (Altmetrics for Research Impact Actuation)** to gather and compute altmetrics to measure research impact of scholarly and scientific publishing.

This research will help funding agencies, and educational and research institutions, to measure and benchmark research outputs. The design and development of the ARIA system prototype that supports altmetrics may lead to tie-ups with market research and publishing companies.

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