International Conference on Advanced Research in
BUSINESS, MANAGEMENT & ECONOMICS

22 - 24 May 2026 Munich , Germany

# Artificial Intelligence Adoption and Scientific Publication Productivity in Management Research: A Scientometric Study

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## Abstract

The scientific research literature has faced a very rapid growth over the last few decades. More recently, concerns have been expressed regarding artificial intelligence's possible impact on the general output of scientific articles due to its growing use. This study uses a scientometric technique to investigate whether changes in scientific research output are related to the growth of AI use in scientific research, with a focus on management field research. Keyword occurrences in titles, abstracts, and indexed terms are used to analyze bibliographic metadata from Scopus over 20 years.

Terms like "artificial intelligence" and "machine learning" are used to identify papers relating to AI. Keywords like "scientific" and "publication trend", and "management" are used to capture scientific research on management-related topics. To look at growth patterns and possible temporal connections between the two fields, publication trends are examined across time.

The results shed light on how the growth of AI tools in the scientific milieu corresponds with more general advancements in scientific output in this field. The study emphasizes new trends in knowledge generation in the field of management and, respectively, the changing role of AI in higher education research, scientific conferences, and journals, even though it does not prove causal linkages.

**Keywords:** Artificial Intelligence, Scientometric and Bibliometric Analysis, Publication Trends, Scientific Research and Publication Productivity, Management