A Bibliometric Overview of the International Journal of Interactive Multimedia and Artificial Intelligence

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ABSTRACT

The International Journal of Interactive Multimedia and Artificial Intelligence (IJIMAI) published its first issue ten years ago. Currently, IJIMAI is indexed in the important database Emerging Sources Citation Index. This paper aims to identify, through a mapping of science, those most relevant aspects of the structure of publications made during the first 10 years of IJIMAI. Using VOSviewer software, the structural maps of the IJIMAI publications are analysed according to techniques such as bibliographic coupling, co-citations and co-occurrence of keywords. In addition, the evolution of the publications, citations and an analysis of the most cited papers of the journal are presented. The results show that IJIMAI has experienced a remarkable growth of both publications and citations in the last five years. We also observe that IJIMAI does not only capture the attention of the Spanish scientific community, but also of emerging countries such as India and Iran and emerging Latin American countries such as Colombia. With such increasing behaviour, it is expected in the coming years that IJIMAI will position itself among the best journals with similar scientific scope.

Keywords

Bibliometrics, Web Of Science, VOS Viewer.

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I. INTRODUCTION

As stated in its access platform, the International Journal of Interactive Multimedia and Artificial Intelligence (IJIMAI hereinafter), pretends to be an open access point to relevant research on advances in Artificial Intelligence tools or tools that use Artificial Intelligence with interactive multimedia techniques. IJIMAI published its first issue in December 2008, under the direction of its editors, Dr. Jesús Soto Carrión and Dr. Elisa García Gordo. This issue published research from diverse areas of knowledge, such as Medical Diagnosis, Semantic Metadata, Nature Conservancy and Intelligence perception. Until 2011, IJIMAI kept publishing an annual number. The period 2012 published 3 issues and finally, since 2013, it has kept publishing 4 issues per year. The year 2015 was specially important since the journal was indexed in the Emerging Sources Citation Index (ESCI hereinafter), considered an important database in the Web of Science (WoS hereinafter).

In 2018, IJIMAI celebrates its tenth anniversary, which stimulates our interest in carrying out a bibliometric analysis of all the publications made by the journal. According to Cobo et al. [1], Bibliometrics is a set of methods used to study the impact of a particular field, the impact of a set of researchers or a particular article. Among the main methods used in a Bibliometrics is performance analysis and science mapping [2]. The first one focuses on assessing the impact of scientific actors on a bibliographic database. Keep in mind that scientific actors involve countries, universities, departments, researchers. On the other hand, science mapping intended to show the structural and dynamic aspects of a field of research using techniques such as bibliographic coupling [3], the co-citations of documents [4], citation, co-authorship or co-occurrence of keywords. In line with the above, we want to emphasize that the objective of this contribution is to identify, through a science mapping the most relevant structural aspects of the publications made in IJIMAI. For this, this study uses the VOSviewer Software [5].


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