

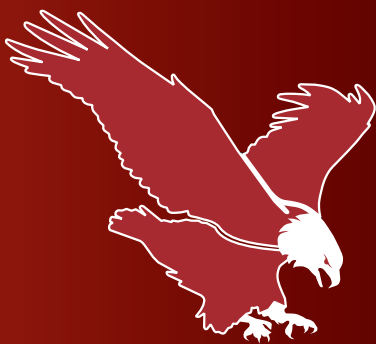


7th
IMACSSS
International
Conference
IMACSSS General Assembly

ABSTRACT BOOK

**October 17-19,
2018**

4th World
Scientific
Congress
of
Combat Sports
and
Martial Arts



IMACSSS



**University
of Rzeszów**

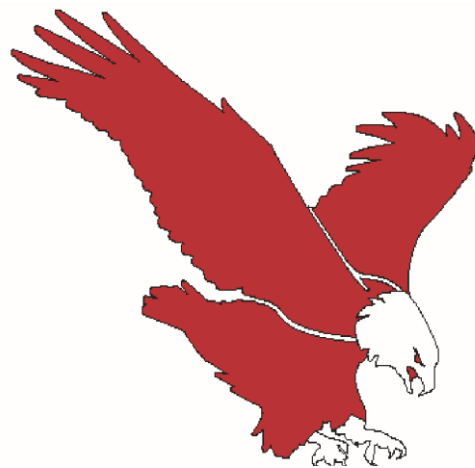
Rzeszów, Poland

4th World Scientific Congress
of Combat Sports and Martial Arts
and 7th IMACSSS International Conference

ABSTRACT BOOK

October 17–19, 2018, Rzeszów, Poland

Wojciech Jan Cynarski and Gabriel Szajna [Eds.]



International Martial Arts And Combat Sports Scientific Society
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A BIBLIOMETRIC REVIEW OF SCIENTIFIC PRODUCTION ON AIKIDO FROM THE 1970S TO TODAY

Keywords: martial arts, combat sports, aikido, science, bibliometrics.

Introduction

Aikido is a Japanese martial art which is now practiced worldwide. It is practiced “for reasons ranging from the strictly martial to the strictly spiritual, with the general maintenance of health and wellbeing occupying the middle ground between these two extremes” [Goldsbury 2010: 132]. Despite having an international sport federation (International Aikido Federation – *IAF*, with 52 member countries to date) and being recognized by the Global Organisation of International Sport Federations – *GAISF*, aikido could be considered as an exception in the sport world as it is usually not practiced for official sport competition: “In contrast, aikido refuses to become a competitive sport and rejects all forms of contests or tournaments, including weight divisions, ranking based on the number of wins and the crowning of champions. Such things are seen as fueling only egotism, self-concern and disregard for others” [Ueshiba 1984: 15]. To our knowledge there are no studies assessing the interest of the scientific community on this unique martial art. The main aim of this study is to provide a general overview on the scientific production on aikido.

Methods

Assuming that scientific production on aikido would be probably lower than that of more popular martial arts and combat sports (MA&CS), we explored a wide variety of global, multidisciplinary and specific databases: Web of Science (WoS), Scopus, DOAJ, Academic Search Complete, ProQuest, JSTOR, SportDiscus, Medline, The Cochrane Library, CINAHL, ERIC, PsycINFO, Psychology & Behavioral Sciences Collection, Science Open, and The Philosopher’s Index. The search term for all databases was “aikido*” (i.e., aikido, aikidoka, aikidoist). The obtained records ($n=901$) were exported to EndNote reference management software and filtered following these inclusion criteria: (1) *Document type*: articles, books or book chapters; (2) *Topic*: focused on aikido, referring to aikido on results and/or including aikido practitioners in the study sample; (3) *Publication date*: published until 2017; (4) *Language*: no language restriction was applied; and (5) Not duplicated. The final number of selected records was 243. They were exported to a spreadsheet and descriptively analyzed according to the following variables: (1) *year of publication*; (2) *source*; and (3) *scientific field*, following the UNESCO nomenclature for fields of science and technology.

Results

Results ($n=243$ records) showed a clear predominance of articles (85.6%) over book chapters (11.1%) and books (3.3%). These records were published for 45 years (1973-2017), ranging from zero (eight years in the 1970s and 1980s) to 21 records (year 2016). There was a very slow increase in the number of publications on aikido per year, and only in the present decade was it generally above ten: 1970s=2.1% of total publications, 1980s=8.6%, 1990s=20.6%, 2000s=28%, and 2010s=40.7%. Only two journals, for a total of 140 (1.4%), published ten or more articles on aikido. The leading journal was the (now-defunct) *Journal of Asian Martial Arts* (23 records). Finally, the selected records were related to 13 scientific fields (54.2% of total fields). The most prominent were Psychology (17.7%), Medical Sciences (16.5%), Pedagogy (15.6%), Sociology (14.8%), Life Sciences (9.9%), Philosophy (6.2%) and History (5.3%).

Discussion and conclusions

Our results can be compared to those of other bibliometric studies focused on judo [Peset *et al.* 2013], taekwondo [Pérez-Gutiérrez *et al.* 2015; Pérez-Gutiérrez *et al.* 2017], karate [Gutiérrez-García *et al.* 2018] and on martial arts and combat sports [Gutiérrez-García *et al.* 2011]. First, the number of studies on aikido was much lower than for judo ($n=384$ until June 2011, $n=165$ in our study until this year), taekwondo (340 until 2016, $n=232$ in our study until this year) and karate (1,209 until 2017), even considering that for judo and taekwondo the search was limited to the WoS database. Furthermore, compared to Gutiérrez-García *et al.*'s [2018] results on karate, whose study was very similar to this, the number of journals publishing articles on karate ($n=487$) was much higher ($n=140$ for our study). Arguably, these differences relate, to a large extent, to (1) the special characteristics of aikido as a martial art, which has been reluctant to follow the main stream towards sportification, and (2) the intrinsic characteristics of aikido as a physical exercise, composed among others of throws, joint locks or falling techniques, therefore being less appealing for the healthcare sector than other “softer” practices such as tai chi or chi kung. In our view, both aspects are clearly reflected in the distribution of scientific fields found in our research. While current trends in sports science research are aimed at health and sport performance [Williams, Kendall 2007] (i.e., Life Sciences, Medical Sciences and Psychology are dominant, as it can be seen for karate), the dominant fields in aikido are more balanced, with fields of Pedagogy or Sociology significantly contributing to its scientific production. This makes the scientific production on aikido a special object of study in the heterogeneous area of MA&CS studies. This study can help aikido scholars and practitioners to be aware on the current state of the field, and it is also an invitation to make use of this scientific literature to improve our understanding of aikido theory and practice. Notwithstanding a wide sample of databases were taken into account for this study, it just shows a (probably significant) part of aikido scientific production. Further studies could: (a) explore different global or local (particularly Japanese) information sources; (b) take into account more document types (e.g., doctoral dissertations or congress abstracts); and (c) make deeper analyses on the specific contents of aikido scientific literature.

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IN WHICH JOURNALS CAN I PUBLISH MY RESEARCH ON MARTIAL ARTS AND COMBAT SPORTS? AN UP-TO-DATE APPROACH

Key words: martial arts, combat sports, journals, science, research.

Introduction

There is evidence that research in martial arts and combat sports (MA&CS) has boomed since the late 1990's [see *e.g.*, Green and Svinth 2010; Gutiérrez-García *et al.* 2011]. This has led to the birth of several scientific/technical journals specific to MA&CS. These journals are nowadays sharing a common scientific publication space with more traditional scientific field-oriented journals, which also publish studies on MA&CS. The aim of this study is to provide a general and up-to-date overview on the MA&CS publication space referred to journals, as a tool for helping authors decide where to publish their MA&CS studies.

Methods

This study followed a bibliographic approach. Scopus and the Web of Science (WoS) core collection databases were screened for journal retrieval as these are, arguably, the most relevant global and multidisciplinary scientific databases nowadays. SportDiscus and PubMed databases were also included due to their relevance in the physical activity and sport sciences field. In addition, the authors provided information of current MA&CS scientific/technical journals not indexed in these databases. In order to rate how many MA&CS papers were published in specific MA&CS journals we used data from several bibliometric studies. The interpretation of the results was based on the authors' knowledge and included variables such as impact, visibility and accessibility, the latter both for authors and readers.