

Visualization and Mapping of Knowledge and Science Landscapes in Expert Systems With Applications Journal: A 30 Years' Bibliometric Analysis

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Abstract

The *Expert Systems With Applications* (ESWA) is a leading journal in the fields of computer science and engineering. Motivated by its outstanding performance, this paper seeks to develop a comprehensive overview of research activities in ESWA since its inception in 1990. In this regard, bibliometric techniques have been utilized to characterize the status quo, dynamics, and development trends of research patterns in ESWA. In doing so, the work used Scopus database as a source of data required. A data visualization software, visualization of similarities (VOS) viewer, was used to map the bibliographic material. The Scopus database yielded 12,254 documents published in ESWA from 105 countries with an average of 408 documents/year. The most productive country was Taiwan (2,069 documents; 17.0%). National Cheng Kung University, Taiwan, was the most productive institution (219 documents; 1.8%). The major topics which will continue to be active include genetic algorithms, data mining, neural networks, support vector machines, classification and machine learning, feature selection, particle swarm optimization, fuzzy logic, and clustering. The outcomes underline the significant growth of ESWA through time. The vitality of topics addressed in ESWA to solve real-world problems boosts the progress and advancements of knowledge in this journal.

Keywords

artificial intelligence, expert systems, visualization maps, bibliometric indicators, content analysis

Introduction

The expert systems as reliable decision-making systems have a great potential in solving many problems that mostly entail a human expert. These systems are computational applications utilizing convenient logical reasoning with an intention of providing a subject-matter expertise to non-experts in a particular field (Roy et al., 2015). As a part of applied artificial intelligence, the expert systems have been developed in the mid of 1960s by the artificial intelligence community. The knowledge in expert systems are transferred from human experts to computers, stored and called upon by users for a particular advice (Shu-Hsien, 2005). The building of any expert system is based primarily on a deep knowledge of a specific subject area that can be acquired from specialties and experts in the subject area. The research in expert systems can be considered as one of the most flourishing areas of current research activities within artificial intelligence field (Wagner, 2017). Many applications of expert systems have been developed covering a vast range of complex problems domains (i.e., accounting, financial services, manufacturing, medicine, etc.) (Wagner, 2017). In association

with the evolution of expert systems, many scientific journals have been emerged on this topic to report the developments and advancements in this regard.

The expert systems science and application community is increasing exponentially. This is evident by the large amount and high-quality research works on this topic. Many well-respected and influential journals are active in publishing relevant research. The *Expert Systems With Applications* (ESWA) journal published by Elsevier is one of the most prominent journals which are devoted to reporting the new research findings in the domain of expert systems and their applications. The scope of ESWA journal covers topics in relation to designing, development, testing, implementation, and/or management of expert and intelligent models and also

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