

KNOWLEDGE ORGANIZATION

KO

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KNOWLEDGE ORGANIZATION**Journal of the International Society for Knowledge Organization****Richard P. Smiraglia, Editor-in-Chief****KOeditor-in-chief@knoworg.org****Instructions for Authors**

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Criteria for acceptance will be appropriateness to the field of knowledge organization (see "Scope" at <https://www.isko.org/ko.html>), taking into account the merit of the contents and presentation. It is expected that all successful manuscripts will be well-situated in the domain of knowledge organization, and will cite all relevant literature from within the domain. Authors are encouraged to use the KO literature database at <http://www.isko.org/lit.html>.

The manuscript should be concise and should conform to professional standards of English usage and grammar. Authors whose native language is not English are encouraged to make use of professional academic English-language proofreading services. We recommend Vulpine Academic Services (vulpineacademic@gmail.com).

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Reference citations within the text should have the form: (Author year). For example, (Jones 1990). Specific page numbers are required for quoted material, e.g. (Jones 1990, 100). A citation with two authors would read (Jones and Smith 1990); three or more authors would be: (Jones et al. 1990). When the author is mentioned in the text, only the date and optional page number should appear in parentheses: "According to Jones (1990), ..." or "Smith wrote (2010, 146): ..." A subsequent page reference to the same cited work (e.g., to Smith 2010) should have the form "(229)." There is never a comma before the date.

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Examples:

Dahlberg, Ingetrud. 1978. "A Referent-Oriented, Analytical Concept Theory for INTERCONCEPT." *International Classification* 5: 142-51.

Howarth, Lynne C. 2003. "Designing a Common Namespace for Searching Metadata-Enabled Knowledge Repositories: An International Perspective." *Cataloging & Classification Quarterly* 37, nos. 1/2: 173-85.

Pogorelec, Andrej and Alenka Šaupel. 2006. "The Alternative Model of Classification of Belles-Lettres in Libraries." *Knowledge Organization* 33: 204-14.

Schallier, Wouter. 2004. "On the Razor's Edge: Between Local and Overall Needs in Knowledge Organization." In *Knowledge Organization and the Global Information Society: Proceedings of the Eighth International ISKO Conference 13-16 July 2004 London, UK*, edited by Ia C. McIlwaine. Advances in knowledge organization 9. Würzburg: Ergon Verlag, 269-74.

Smiraglia, Richard P. 2001. *The Nature of 'a Work': Implications for the Organization of Knowledge*. Lanham, Md.: Scarecrow.

Smiraglia, Richard P. 2005. "Instantiation: Toward a Theory." In *Data, Information, and Knowledge in a Networked World: Annual Conference of the Canadian Association for Information Science ... London, Ontario, June 2-4 2005*, ed. Liwen Vaughan. <http://www.caais-acsi.ca/2005proceedings.htm>.

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Scope

The more scientific data is generated in the impetuous present times, the more ordering energy needs to be expended to control these data in a retrievable fashion. With the abundance of knowledge now available the questions of new solutions to the ordering problem and thus of improved classification systems, methods and procedures have acquired unforeseen significance. For many years now they have been the focus of interest of information scientists the world over.

Until recently, the special literature relevant to classification was published in piecemeal fashion, scattered over the numerous technical journals serving the experts of the various fields such as:

philosophy and science of science
science policy and science organization
mathematics, statistics and computer science
library and information science
archivistics and museology
journalism and communication science
industrial products and commodity science
terminology, lexicography and linguistics

Beginning in 1974, KNOWLEDGE ORGANIZATION (formerly INTERNATIONAL CLASSIFICATION) has been serving as a common platform for the discussion of both theoretical background questions and practical application problems in many areas of concern. In each issue experts from many countries comment on questions of an adequate structuring and construction of ordering systems and on the problems of their use in opening the information contents of new literature, of data collections and survey, of tabular works and of other objects of scientific interest. Their contributions have been concerned with

- (1) clarifying the theoretical foundations (general ordering theory/science, theoretical bases of classification, data analysis and reduction)
- (2) describing practical operations connected with indexing/classification, as well as applications of classification systems and thesauri, manual and machine indexing
- (3) tracing the history of classification knowledge and methodology
- (4) discussing questions of education and training in classification
- (5) concerning themselves with the problems of terminology in general and with respect to special fields.

Aims

Thus, KNOWLEDGE ORGANIZATION is a forum for all those interested in the organization of knowledge on a universal or a domain-specific scale, using concept-analytical or concept-synthetical approaches, as well as quantitative and qualitative methodologies. KNOWLEDGE ORGANIZATION also addresses the intellectual and automatic compilation and use of classification systems and thesauri in all fields of knowledge, with special attention being given to the problems of terminology.

KNOWLEDGE ORGANIZATION publishes original articles, reports on conferences and similar communications, as well as book reviews, letters to the editor, and an extensive annotated bibliography of recent classification and indexing literature.

KNOWLEDGE ORGANIZATION should therefore be available at every university and research library of every country, at every information center, at colleges and schools of library and information science, in the hands of everybody interested in the fields mentioned above and thus also at every office for updating information on any topic related to the problems of order in our information-flooded times.

KNOWLEDGE ORGANIZATION was founded in 1973 by an international group of scholars with a consulting board of editors representing the world's regions, the special classification fields, and the subject areas involved. From 1974-1980 it was published by K.G. Saur Verlag, München. Back issues of 1978-1992 are available from ERGON-Verlag, too.

As of 1989, KNOWLEDGE ORGANIZATION has become the official organ of the INTERNATIONAL SOCIETY FOR KNOWLEDGE ORGANIZATION (ISKO) and is included for every ISKO-member, personal or institutional in the membership fee.

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Founded under the title International Classification in 1974 by Dr. Ingetraut Dahlberg, the founding president of ISKO. Dr. Dahlberg served as the journal's editor from 1974 to 1997, and as its publisher (Indeks Verlag of Frankfurt) from 1981 to 1997.

The contents of the journal are indexed and abstracted in *Social Sciences Citation Index*, *Web of Science*, *Information Science Abstracts*, *INSPEC*, *Library and Information Science Abstracts* (LISA), *Library, Information Science & Technology Abstracts* (EBSCO), *Library Literature and Information Science* (Wilson), *PASCAL*, *Referativnyi Zhurnal Informatika*, and *Sociological Abstracts*.

Enabling AI Solutions in Pharmaceutical Companies



AI in Pharmaceutical Companies Enabling Efficient, Responsible and Human-Centered Solutions for Medical Affairs

By Michael F. Gleixner M.Sc.

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The concrete realization of AI endeavors is challenging, especially for established companies. In this paper, essential requirements from theory and practice are analyzed holistically and applicable solutions are discussed. It incorporates insights from conducted case studies and expert interviews in the pharmaceutical industry.

This work contributes to support previous research on how efficient, (ethically) responsible and human-centered AI solutions can be integrated into the business model of scientifically oriented fields (such as Medical Affairs). In this context, the role of management and interdisciplinary professionals is highlighted and the development of an AI framework is proposed.