

# Riccardo Ridi

Ca' Foscari University of Venice  
ridi@unive.it  
<http://www.riccardoridi.it>

## Ethical values for knowledge organization

English version of the talk given at the ISKO conference *Organizing knowledge in museums, theatres and multimedia archives* (Rome, September 10, 2012).

Translated by Juliana Mazzocchi.

Preprint of the accepted final version of the paper published in "Knowledge organization", XL (2013), n. 3, p. 187-196. A shorter Italian version was published in "Bibliotime", XVI (2013), n. 3, <<http://www.aib.it/aib/sezioni/emr/bibtime/num-xvi-3/ridi>> as *Valori deontologici per l'organizzazione della conoscenza*.

**Abstract:** The comparison between some lists of ethical values prevalent in various professions related to knowledge organization shows that three of these values (intellectual freedom, professionalism and social responsibility) could be the core of a general knowledge organization ethics and that two other values (intellectual property and right to privacy) could be added to them in the future, as they are already among the fundamental values of library profession.

### 1.0 Introduction

In any professional field we can distinguish between technical means and ethical aims, that is between the tools (technological, financial, conceptual, cultural, legal, etc..) we need to reach, with the maximum efficiency and effectiveness possible, the very objectives of a profession and the principles that the profession itself, obviously influenced by society in which it is immersed, identifies as fundamental objectives to be achieved and as values to be respected. For each of the main professions that, in one way or another, put knowledge organization at the centre of its competences and of its duties there is a vast literature about the best technical means available. Besides there are also (although considerably less) publications about fundamental values and, almost always, also one or more codes of ethics issued by various professional associations of the sector, both nationally and internationally. A code of ethics is a text that formalizes a set of rules to which anyone who works in a particular field should refer to in order to identify ethical principles, at the same time both thoughtful and authoritative and reasonably stable and shared, that can guide their professional conduct, beyond the varied and changing technical competences and in compliance with administrative and legal rules that obviously any profession provides. For an introduction both to the scientific debate and codes of ethics relating to the fundamental values of the different professions one can see for example Preer (2008) for librarians, Danielson (2010) for archivists, Marstine (2011) for museums workers, Mason et al. (1995) for documentalists, Quinn (2012) for information technology

professionals, Kennedy (2012) for webmasters, Meyers (2010) for journalists and Macfarlane (2009) for researchers.

As for the entire object of knowledge organization, there are (as the readers of this journal know well) numerous transversal contributions about the best techniques and methods for the management of information and documents relevant to various types of institutions, professions, disciplines and contexts, while contributions which are transversal in the same way about the values which should (or, at least, could) be shared by all the professional operators of knowledge organization are extremely rare. It can be presumed, however, that most of those principles are already present among those of at least one of the professions involved and therefore what remains to be done is above all related to collation, comparison and identification of priorities rather than finding new values. As a small contribution to this work, my talk will compare the most commonly used values in the library field and three recent lists (Bair 2005, Rosenfeld and Morville 2006, Ridi 2010) of possible values for all professionals of information organization, in order to verify the similarities, the differences and the degree of overlap.

## **2.0 Librarians' professional values**

Librarians' professional associations have always been very active in terms of ethics, so much that about seventy national codes issued or updated by them in the last two decades have been collected and translated into English in a very recent book (Gebolys - Tomaszczyk 2012). Also IFLA (International federation of library associations and institutions), i.e. the international association that coordinates them, is very committed in this field, especially through its committee FAIRE (Committee on freedom of access to information and freedom of expression), but until this year it had never proposed its own code of ethics addressed to all librarians in the world. This lacuna was finally filled on the occasion of IFLA's 78th Conference held in Helsinki from 11th to 17th August 2012, during which the final version of the international code of ethics (IFLA 2012) was issued. A special working group started developing it in summer 2010 and since November 2012 it had been subjected, as a provisional draft, to the comments of the international professional community. The code is available in two versions ("a long, comprehensive version, and a shorter version for quick reference"), divided into six principles:

1. Access to information
2. Responsibilities towards individuals and society
3. Privacy, secrecy and transparency
4. Open access and intellectual property
5. Neutrality, personal integrity and professional skills
6. Colleague and employer/employee relationship

These principles can be almost completely overlapped with those that I have singled out in my book (Ridi 2011) published in October 2011, starting from the

analysis of the national professional codes and of the international scientific literature available at the time:

1. Intellectual freedom
2. Right to privacy
3. Professionalism and neutrality
4. Intellectual property
5. Social responsibility

The main differences, absolutely not substantial, between the two lists of principles (or values) are:

- a) While the first value of my list refers to the entire semantic range of intellectual freedom, that includes both the right to intellectual efforts of others and a right to distribute one's own intellectual efforts (Woodward 1990, 3), IFLA prefers to focus on the aspect of intellectual freedom that is actually unanimously considered to be of greater relevance and importance to libraries, that is the guarantee of universal access to information for anyone.
- b) The various values related to their professionalism that librarians should respect in their relations with users, documents and colleagues (neutrality, integrity, competence, updating, accuracy, courtesy, loyalty, absence of conflicts of interest and absence of waste, etc.) are summarized in my list in a single principle (the third) and by IFLA in two principles (the fifth and the sixth).
- c) Although IFLA numbers its principles and affirms that the first of them represents "the core mission of librarians and other information workers", there is no explicit statement on a possible order of priority in case of conflicts or doubts, whereas the order in which I listed "my" five principles corresponds to the one I thought that the professional community generally tends to place them.

### **3.0 Professional values for knowledge organization**

In the absence of codes as authoritative as IFLA's and of extensive literature explicitly devoted to identify the most effectively shared values between all types of professionals of knowledge organization, I chose - as examples of possible shared values - three prescriptive proposals (Bair 2005, Rosenfeld and Morville 2006, Ridi 2010). The most recent of these (Ridi 2010, 49-80) intended to identify thirteen values (which will be summarized in the next thirteen subparagraphs) recommendable both to guide the organization and the dissemination of information and documents made by each of us (especially, but not exclusively, as professionals in the sector) and to assess if and how the information and the documents that we in turn receive are organized in a proper and effective way, with particular attention to their "indexes", that is to all the

structured collections of metadata that serve to find and organize the primary information and documents to which the same metadata refer.

### *3.1 Accessibility*

Rather than a real value, accessibility is a sort of precondition to all the other values for knowledge organization, in the sense that if it not possible to have physical access to information or to the indexes that lead to it (or, even worse, neither one nor the others), the way - more or less rational - information and those indexes are organized becomes irrelevant.

When speaking of accessibility, one immediately thinks of the two areas in which this term is most often met with, that is building (in which it takes form of the removal of the so-called "architectural barriers") and the web (where each site should be visible with any type, brand and version of browser), which however do not exhaust the scope of application. If we actually want information, documents that contain it and indexes that make its retrieval easy really reachable, they (not only those on the web but also those available on any other type of support, either analog or digital) should always be really usable by anyone, including those who suffer - temporarily or permanently - a reduced or absent capability of seeing or hearing.

The accessibility issue includes also aspects that are sometimes paradoxically forgotten just because they should be obvious, such as geographical accessibility (that is a sufficient distribution on the territory of information sources and services, located in places with free parking and reachable by public transport), temporal accessibility (consisting partly of long periods for accessing information services and partly of the conservation and consultability of documents and their indexes produced in the past), technological accessibility (that is the availability of technical tools, such as computers and the internet, which allow and facilitate access to information), bureaucratic accessibility (obtainable reducing, for example, the number and complexity of the forms to fill out and forward, and reducing the cards to collect, preserve and exhibit), psychological accessibility (which requires not to interpose too many doors to be opened, too many people to necessarily interact with, too many unusual behaviours to be followed between the users and the information) and finally economic accessibility, consisting of the simple - but fundamental - consideration that those who do not have enough money to pay the contents or the technical means to use information, are unlikely to access it, or those who do not have enough time, being completely absorbed by work and family cares.

### *3.2 Competence*

In order to communicate something meaningful and useful on any topic, we need to have at least some competence on it. This simple observation about the information content of documents may consist of various dimensions, especially when applied to the organization of the documents themselves and to the

preparation of their indexes. First of all primary data, metadata and indexes should always be correct and accurate, avoiding material errors and formal inaccuracies. Then, as also required by the value of accessibility, they should be expressed by a language that is clear, concise and current, avoiding both obscure and unnecessarily complicated forms and spelling or syntax errors.

The competences required to achieve these results are mainly disciplinary (the knowledge of the subject and the most reliable sources to update, enrich and verify it), linguistic (being able to read and write well enough in the necessary languages) and psychological (to devote enough time and attention to study and write). These are three competences that are clearly more likely to be encountered among those who have obtained a specific degree, who practice a profession in the field or regularly carries out research or teaching in the sector, rather than among passers-by met by chance at a café or among bloggers or taggers that accidentally express their opinion on all human knowledge.

Not always, however, it is possible and desirable that only professionals in a particular sector produce documents and indexes relating to the same sector. There are, for example, professions devoted to various forms of information intermediation whose operators certainly cannot be personally experienced in all disciplines to which the documents and the subjects that they publish, review, catalogue and disseminate belong. In such cases, however, it is part of their specific professionalism as intermediators to have the experiences and techniques to be able to understand and revise in a suitable manner information belonging to disciplines in addition to their own, often basing themselves on internal metadata (prefaces, introductions, tables of contents, abstracts) or external (reviews, charts, bibliographies) of the documents themselves, on other related documents (manuals, encyclopaedias, essays, interviews) or using consultants expert on various issues.

### *3.3 Thirdness and impartiality*

The technical disciplinary competences on the content of documents and those, technical and formal, on the best ways to index them are necessary to create technically correct indexes, but do not prove to be sufficient to produce indexes that are really reliable for users. To achieve this result indexers must be able to produce also an important ethical and not technical feature, summarizable to the concept of information thirdness, based on the one of legal thirdness, proper to the judge that must ensure that he/she is a third party, and therefore impartial, with respect to the prosecution and the defence.

It should be obvious that the data and the opinions provided by institutions and people directly involved in the issues under discussion or under investigation are an extremely suspicious source of information. And it should be equally evident that when we read a document or listen to somebody who speaks, we should always ask what benefits will receive people who provide certain information by the fact that we give credence to them, considering - at least in advance - most reliable those who speak without having any interest neither economic nor of another type in what they say or, better yet, those who,

at worst, would have an interest in saying the opposite. But if, in spite of this, one often forgets the basic prudential rule of asking *cui prodest* concerning primary data and documents, it is easy to imagine how much more often it is neglected with respect to metadata and indexes, which instead can be deliberately misleading at least as much as the information to which they relate to.

In addition to the technical dimension of indexing, there is therefore an ethical dimension, which will become ever more important as the audience of indexers (who increasingly are not technicians belonging to a professional association but free citizens led only by their own conscience and by their own personal interests) expands. The indexer's thirdness is thus not only an optimization necessary to specialize and save the time of both the reader and the author, but is also a guarantee that those who assign metadata are interested only in doing it in the best technical way and do not directly benefit in any way by users retrieving an information rather than another. Otherwise, the risk is that, as in a trial in which a judge is not sufficiently impartial, one listens to a plea convinced that it is a decision.

### *3.4 Coherence and continuity*

From a strictly technical point of view, coherence is one of the most important features of any index. As a matter of fact, while it can be discussed - also for a long time - about which is, in a given situation, the most rational, useful and consistent to reality organizational criterion, it is intuitive that using more methods at the same time, mixing them at random, is definitely a bad move. Inversely, even the most bizarre ordering can however be learned, used and be at least minimally effective in terms of availability, provided that it is applied constantly and coherently. The value of coherence imposes that, once a criterion of ordering, or of class subdivision or of highlighting of certain characteristics is adopted, it is maintained without exceptions for the whole information field that is being organized, signalling clearly any point in which the field must be considered concluded and a different criterion is adopted.

As for the terminology to be used in the indexes, the two most important principles of coherence are those, mirror-like, of uniformity (things must be always called with the same terms) and of uniqueness (each term should always refer to the same thing) applicable in thousands of situations, from road signs to signage in public and private offices and valid also for non-textual metadata such as graphic symbols and, in certain contexts, colours.

Continuity can be seen, then, as a corollary of coherence. Continuity is the positive characteristic of information systems that do not "abandon" users during their information search, leaving them doubtful about the direction to be taken at a road intersection, at a branching corridor or at a broken link in a site or in a directory, but that accompany users until they reach the destination, providing constantly along the entire path the same quantity and quality of data and options necessary to the orientation.

### *3.5 Completeness and granularity*

It is quite intuitive that an index should consider all the information of the field it covers. Less intuitive is understanding what really means "all". If the granularity of a document can be defined as the extent to which it can be subdivided into a series of "information atoms" of smaller dimensions but which maintain a sufficient autonomy and significance (like the single entries of an encyclopaedia), then the granularity of indexing can be identified on one hand with the extent in which the indexes are able to give a full and distinct account of those microdocuments and on the other with the allocation to any document (regardless of its decomposability into microdocuments or its belonging to a macrodocument) of metadata concerning concepts and terms related not to the entire document but only to its parts or aspects.

Both components of index granularity involve - when the index is being compiled - not easy decisions, because we have to take into account not only the resources available to make the indexing itself, but also the fact that users' time and attention are precious and limited resources. We should therefore strive to balance the need for capillarity in information retrieval with that of the contrast to the information pollution, understanding the difference between a certain amount of controlled redundancy, useful for correcting errors or misunderstandings in communication, and the careless superfetation of those who heap up information upon information at random, without an overall plan and without ever verifying its coherence and its topicality and reducing its frequency.

If the documentary universe to index is in continuous expansion or otherwise dynamic and if the relative index has the technical ability to keep up with that mutability through subsequent editions or a likewise continuous updating - typical of the digital environment - the value of completeness involves also the temporal/time dimension, including the frequency, the extension and the timeliness of the updating itself. It is also a corollary of the completeness the exhaustivity in classification, consisting of covering completely the entire conceptual horizon considered with the sum of the classes that are created, leaving no object "horphan" of a class in which it can be placed and without abusing a last overcrowded class "other" (where to replace what has not been possible to assign to any of the other classes).

### *3.6 Usefulness and comprehensibility*

In each particular situation there might be a thousand different ways to organize information, all formally correct, all logically coherent and all quantitatively complete. How can we leave that paralysing symmetry to adopt one in particular? The answer is at the same time the North Star and the chimera of any information system and consists of favouring the concrete and prevailing interest of the users of the system, that however can be difficult to identify and formalize.

Therefore, both in design and in management, the information system needs to maintain as constant reference points, to consider in the evaluation of the results obtained and in the identification of goals and priorities, its own users, their information objectives and the context in which it is expected that the system will be mainly used. These are all notions that can be obtained initially and verified periodically through interviews, questionnaires, tests and other methods of investigation of tastes, values, goals and behaviours of the users of the system, but translating them into a specific method of indexing is still a sort of a bet and of interpretation the outcomes of which are always uncertain and debatable.

From the value of usefulness derives directly the value of comprehensibility. It will be actually useless to calibrate on the user the class scanning of an index if he/she is not able to distinguish between the classes themselves and to intuit their content because of the cryptic terminology used to name them. Or, inversely, it will be unprofitable to use really current terms to label class or other information containers ordered in a way that does not appear obvious (prior to being useful) to those who will find and use such information. Comprehensibility, at all levels and for the vast majority of reference users, is therefore an essential condition for the actual usefulness of any method of information organization.

The corollary of the inevitable simplification made by any kind of index derives from the necessity of comprehensibility and usefulness. An index, in order to be "manageable", must avoid the Borgesian paradox of the map that cannot be used because it is extended as much as the area that it wants to represent. The result is a non-trivial dialectic between the necessity for each index to reflect correctly the documents to which it refers to and the very reason for which metadata were born and spread (i.e. the advantages brought by their greater simplicity and standardization with respect to their primary data). Another result is that the same document or document collection not only tolerates, but actually requires to be accompanied by a plurality of indexes, each of which highlights a particular aspect of them or addresses to a particular audience, as it happens to a same territory described by different maps: geographical, political, historical, economic, for children, for cyclotourists, etc.

### *3.7 Contextualization*

Only contextualization allows raw data to enter a circuit of meaning, turning into really understandable, measurable and usable information. The same process is repeated at the highest levels of the cognitive processing, as single information becomes richer in meaning and which suggests of rational behaviours as it is properly introduced in a broader context, where it can connect and interact with other information.

It is therefore very important, both from a technical and from an ethical point of view and both in the sphere of primary data and of metadata, that those people who wish to provide and index information without forcing the opinions



of others in a certain direction rather than in another, place it in the richest and most articulated possible context, that allows users to evaluate it in a conscious and autonomous way. Inversely, users of information systems should strive to understand that is definitely more relaxing to use index, metadata and primary data that have been chosen by others, without realizing it and without requiring to have access to a wider information framework. But it is also - equally definitely - the best way to see one's own information rights constrained and, subsequently, the political ones as well, because "being able to decide" actually means only "believing to be able to decide", if one lacks the complete picture of the situation.

### *3.8 Historicization*

Some types of contextualization related to the passage of time seem so important and yet - especially in the digital environment - neglected, to suggest the thematisation in a special value-pack, namable "historicization" and decomposable in three aspects: dating, conservation and topicality.

The requirement of dating merely points out that the date in which a particular document was created is an essential metadatum, which should never be missing neither inside the document itself nor in the external indexes that refer to that document. Indeed, a single date is often not sufficient to distinguish the document from its other versions and to understand when the various components that constitute it date back. The best would be indicating more than one date, such as for example: a) the date of completion of the final version and the date of the first publication for an academic paper; b) the date of the resolution, of the publication and of its entry into force for a law; c) the date of creation of the intellectual content, of the first uploading online and of the last update for a web page.

The preservation of documents is a value already included in accessibility, but the value of historicization requires, in addition, that the preserved documents should be maintained accessible at least at the same level in which they were preserved when they were produced and distributed, but contextualizing them so that they are not liable to cause confusion among users, who should always be able to immediately understand that those are historical documents, often later replaced by more updated versions.

To the problem of coexistence of old and new versions of the same information contents is also linked to the third aspect of historicization that is the topicality, not to be confused with the value of update, already included in the value of completeness. While updating requires that an index takes promptly into account also the new documents that progressively fall within its scope, topicality requires that, when new versions of a document are indexed, the last one is to be preferred, which is brought out and to which the index refers by default, in the absence of the user's different explicit requests.

### *3.9 Sustainability and cooperation*

It is useless to design or inaugurate information services ambitiously rich and refined if we are not able to maintain over time their quality and quantity levels or, even worse, even the same basic service, due to a lack of financial, human, technological or logistic resources.

It will often be unavoidable to deal with reality and reduce one's pretensions, also considering the principles listed here. But, before giving up even only one of the values in which one believes (supposing that it is a convinced adherence and not just a nominal one), some strategies can be adopted to reduce that possibility, the first and the most important of which is cooperation. Cooperation may mean designing and managing with other subjects an information system or one of its segments in order to share costs and optimize resources, but it can also mean giving up the creation of a new service that duplicates an existing one similar, or reshaping one of the two (or both) so that competitors become complementary.

### *3.10 Cognitive saving*

Users of information systems should not be required unnecessarily dispersive cognitive efforts, exposing them to redundant or inapplicable choice options, that are confusing and time-wasting. In the design and management of systems of orientation, navigation and retrieval, information systems managers should therefore prefer the most rational, economic and useful choices for users, avoiding vicious circles, unnecessarily long or complex paths, blind alleys and labyrinths, minimizing the risk that users get lost or do not reach their prefixed targets.

Cognitive saving is a value of rebalancing respect to the pretensions of some of the previous values (in particular those of completeness and contextualization), which might produce, if taken literally, an excess of potential information paths compared to those that users can realistically handle, the majority of which will thus remain scarcely used, producing an unnecessary cost, both in terms of information overload for users and from the point of view of management. On the other hand, it is easy to intuit the strong link existing between this value and sustainability, as all that weighs down uselessly the search experience of the users, likewise uselessly weighs down also the manager's budget.

### *3.11 Freedom*

Finding a balance between the richness linked to the values of completeness and contextualization and the economy imposed by the values of sustainability and saving is not easy. The value of the user's freedom to choose his/her own information paths constitutes the balance in case of doubt, putting into the right

perspective means (information systems) and aims (retrieval of the desired information and documents).

Freedom is a synthesis between the values of completeness and contextualization (which recommend to provide the user with all data) and the values of sustainability and cognitive saving (which preach against waste and information pollution and recommend to carefully select the options that must be made available). But how is it possible to reconcile all this? Data and options must all be there, for those who want them, but they must be presented so as not to overwhelm and bewilder the user, thus avoiding to replace one form of cognitive imposition based on information poverty with another, linked instead to information richness. Data and metadata, therefore, should be proposed in a progressive modular and ordered way, so that users can exercise their right to choose their own information paths, avoiding both the random choice because their excessive number prevent a well thought-out decision, and the impossibility to choose another one because it is invisible or nonexistent, and (above all) to let someone else choose it because interested in promoting a particular content, service or point of view respect to others.

### *3.12 Interoperability and standardization*

Interoperability is the ability to exchange and profitably reuse data and information both between different systems and organizations, and internally in each of them. The fundamental tool to ensure this is standardization, that is first the creation and the dissemination of standards (i.e. of shared rules about how data should be structured and managed) and then the adaptation as wider and as deeper as possible to the *de facto* and *de jure* standards in force in the field.

Only in this way the inevitable investments required to produce data, information, documents, metadata and indexes will really pay, avoiding holding them in many separate and isolated silos, feeding instead collectively - with mutual and multiplied benefits - large common containers from which everyone can draw whenever they need to.

### *3.13 Hypertextuality*

Hypertext means above all multilinearity, that is the ability to read a document not only unilinearly, from the beginning to the end, but also following a plurality of different paths chosen by the user. Hypertextuality is a dimension present in all documents, although in different degrees: ranging from the minimum in novels (where the freedom of choice is limited to the possibility to skip some very boring passages, to postpone the reading of the introduction and to find a particular passage glancing through the volume or using the index) to the maximum of the web (where from any page all the others can be reached, following the links in succession through a thousand different paths or relying on a search engine), passing through scientific papers (full of notes, cross-references and bibliographic references) and all reference works such as

bibliographies, catalogues, directories and encyclopaedias, intended to be queried and consulted rather than read in full.

Understood in this sense, the value of hypertextuality is strictly linked to the value of freedom, of which it is a precondition: only an information system structured in a strongly hypertextual way can allow a high level of freedom for the user in the choice of his/her information paths. On the one hand, in fact, all indexes of any type are provided with an intrinsic hypertext structure, due to their very nature of entities decomposable into sub-elements that refer to a plurality of other entities, and on the other hand their indexical function is strengthened as much as they integrate each other, forming rich, complex and dynamic hypertextual information systems, such as, for example, libraries (especially, but not only, the digital ones) (Ridi 2007, 31-73).

## **4.0 Comparison of values**

### *4.1 Values for information architecture and cataloguing*

The other two texts that I considered (Bair 2005, Rosenfeld and Morville 2006), while addressing explicitly only particular aspects of knowledge organization (that is to say, respectively, library cataloguing and information architecture for the web), address the ethical implications with sufficient generality to be usefully applicable also to other areas. In particular, the fourteenth chapter of the third and so far last edition of the classic manual by Louis Rosenfeld and Peter Morville (2006, 340-344) is mainly based on a book (Bowker and Star 1999) by two scholars of communication sciences dedicated to the social, political, economic and ethical consequences of the methods of knowledge organization more or less consciously used by people and institutions, to identify six crucial ethical considerations that must be kept in mind in the planning of websites, as well as any other information systems. These six crucial ethical considerations are summarized as follows:

1) *Intellectual access*. One of the fundamental objectives of information architecture is to help people find the information they need in the most efficient and effective way, avoiding frustration and waste of time and money.

2) *Labeling*. In the choice of the terms to be used in information systems one should find a balance between the terminology used by authors and the terminology preferred by users, trying to get clarity, predictability and conciseness, without offending anyone.

3) *Categories and classification*. Classification schemes and criteria for inclusion in them of the entities to be classified should be designed avoiding any bias.

4) *Granularity*. One should avoid that the excessive granularity of information contents makes them incomprehensible or misleading, altering or removing their context.

5) *Physical access*. Universal accessibility and usability are essential both in the architecture of physical buildings and in paper publishing and in the design of electronic systems and tools for the treatment of digital information contents.

6) *Persistence*. Information architecture is not concerned with superficial and ephemeral aesthetic aspects, but with deep and lasting structures, that should be designed without haste, feeling responsible not only towards the present contractor but also towards future users.

Bair (2005) analyzes instead the various ethical problems that can happen to cope with during the cataloging procedures that take place in the library, obtaining the proposal for a *Cataloging code of ethics* in ten short points that will be fully transcribed in the next subparagraph.

#### 4.2 *Decomposition and recomposition of values*

Since none of the three lists of values for the knowledge organization examined (Bair 2005, Rosenfeld and Morville 2006, Ridi 2010) indicates explicitly an order of priority between the values themselves, I thought it legitimate to decompose and then compose them differently, grouping them according to the assonance of each with one of the five fundamental ethical values of library profession emerged in paragraph 2.0 from the comparison between Ridi (2011) and IFLA (2012), rearranging the principles of librarians according to the number of values for knowledge organization groupable under each of them.

The principle of intellectual freedom, a priority for librarians, would be confirmed in this experiment as the fundamental principle also for all other professionals of knowledge organization, since many as thirteen out of twenty-nine values resulting from the "decomposition" - ten proposed by Bair (2005), six by Rosenfeld and Morville (2006) and thirteen by Ridi (2010) - are more or less directly "recomposed" as its articulations. In particular, half of the principles of Rosenfeld and Morville (intellectual access, physical access, granularity) and seven out of thirteen of Ridi (accessibility, completeness and granularity, contextualization, historicization, freedom, interoperability and standardization, hypertextuality) are quite clearly referable to the fundamental right of the users of any information system to move freely between all its contents and its organizational structures, with no censorship and having all the necessary data to interpret correctly and autonomously both the contents and the structures. Along the same line are also the first three points of Bair's (2005, 23) decalogue:

1. "We organize, add value to, and provide and maintain fair, equitable, and uncensored access to information for all local, national, and global library users, putting the information needs of our clients and the human right to freedom of information before our own needs and convenience".

2. "To ensure that users find the information they need, catalogers gather and organize information and advise users in their choice of information by providing comprehensive, accurate encoding and access points; knowledgeable application and addition of subject headings and classification schemes; and accurate and complete description and notes".

3. "We are vigilant in ensuring that we do not purposely or inadvertently 'censor' or deny access to information by allowing cataloging backlogs or through inaccuracy, misuse, or nonuse of encoding, subject headings, classification schemes, and authority control".

The second position, in order of importance, can be assigned to the value of professionalism and neutrality, under whose aegis are ten principles, one of which proposed by Rosenfeld and Morville (absence of bias in categories and classification), three by Ridi (competence, thirdness and impartiality, coherence and continuity) and six by Bair (2005 p. 23-24):

4. "We are honest and truthful in the representation of resources in regards to its subject area, the identity of those responsible for the intellectual content, and its accurate description".

6. "We contribute to the creation, development, reform, and fair, unbiased application of cataloging rules, standards, classifications, and information storage and retrieval systems. We avoid and work to reform cultural biases in standard for subject headings, classification schemes, and name authority control".

7. "We provide accurate, full-level records to the shared databases, following the highest standards and rules for encoding, subject analysis, description, and classification".

8. "We are careful not to contribute to the misuse or distortion of information through inaccurate, careless, or minimal cataloging and resist all internal and external pressures to do so. We report and correct errors in the shared cooperative databases".

9. "We do not blindly contribute original cataloging for resources for which we have no language or subject knowledge, but instead seek assistance. We carefully review copy-cataloging for errors before adding them to the local database".

10. "We committ ourselves to lifelong continuing education for the sake of the profession, our employers and clients, and the society we serve. We provide and seek to promote pre-job and on-the-job training and staff development opportunities for catalogers in languages, subject expertise, special formats and technical skills, and we work for required, comprehensive cataloging education in library schools".

Social responsibility - consisting basically in the attention to the values, interests, priorities and culture of the users of information systems - collects eventually the six residual principles, that is labeling and persistence (Rosenfeld and Morville 2006), cognitive saving, usefulness and comprehensibility,

sustainability and cooperation (Ridi 2010) and the fifth point of Bair (2005 p. 23), which could, however, have been placed among those relating to neutrality:

5. "We keep authority files up to date, accurately reflecting the intellectual efforts of authors. We avoid cultural bias and preserve cultural specificity in name headings".

Such an order would remain unchanged - while reducing the distances between the relative importance of intellectual freedom, professional neutrality and social responsibility - even if one moved from the first to the third of the aggregations thus created (or if one counted them in both aggregations) two principles that give the cue to be interpreted differently depending on the weight given to the different values that each of them convey. The second principle of Bair (2005) can in fact be read both as a recall to the professional duty of the accuracy in cataloguing work and as recommendation to ensure that users are always able to retrieve the desired information. Similarly, the interoperability and the standardization advocated by Ridi (2010) can be seen both as an extension of the information paths made available to users and as an opportunity to reduce duplications and wastes, making less expensive the costs of knowledge organization for society.

#### *4.3 Copyright and privacy*

Not even one of the twenty-nine principles resulting from the decomposition carried out in the previous subparagraph seemed to me referable to the values of the intellectual property and the right to privacy, which, on the contrary, are extremely important for librarians. I believe that this result, which frankly surprised me, can be explained in two different ways, among which at present I cannot decide.

On the one hand it is possible that the values of intellectual freedom, accessibility, professionalism, neutrality and social responsibility exhaust by themselves the core of the ethical principles really fundamental for any profession active in the field of knowledge organization, allowing each of them to add to that common substratum other more specific values, such as for example privacy for librarians and archivists or copyright for librarians and publishers.

On the other hand, however, it is also possible that, despite the presence of the text of Rosenfeld and Morville (2006) among the ones taken into consideration, the approach of the normative proposals examined herein (which, in any case, should be extended in future studies to ensure more coverage with respect to the many facets of the activities related to knowledge organization) is still too tied to the most traditional indexing practices. For thousands of years, in fact, indexers (meaning by this term any producer of maps, catalogues, lists, directories or classifications useful for finding and organizing information) have been working to improve the accessibility and usability of primary documents

that were in some way already available to users even in the absence of the "indexes" produced by them and kept up to date. And for millennia those indexes were always little interactive, leaving to users only the opposite options to use them or not to use them, but without being able to modify them significantly, if not through private notes for personal use. Today, however, increasing importance and social impact are gained by situations in which indexing can mean giving an enormous visibility to digital contents otherwise almost impossible to find and where an increasing number of online indexes automatically records a wide range of data about their users, turning them into "advice", more or less interesting, addressed to the entire audience of users. In such a scenario it would probably be desirable that the issues of copyright and privacy were rapidly metabolized by all the professionals of knowledge organization, giving them more importance from the ethical point of view.

## **5.0 Conclusion**

The decomposition of the three lists (Bair 2005, Rosenfeld and Morville 2006, Ridi 2010) of values for knowledge organization and their recomposition according to the grid of values prevailing in library profession (Ridi 2011, IFLA 2012) were carried out "without rest". Not a single one of the twenty-nine values resulting from the decomposition was easily replaceable in the scope of at least one of the five fundamental values of librarians. This suggests, albeit with the limitations of a quantitatively restricted survey, that three of these values (intellectual freedom, professional competence and neutrality, social responsibility) could be the core of a general knowledge organization ethics, to which then each profession could add other more specific principles, such as those related to intellectual property and protection of privacy, very important for librarians but absent from the twenty-nine values here decomposed and recomposed. It is indeed possible that the digital environment, highly interactive, in which more and more often information is generated, organized, searched and used, is propitious for a higher centrality of the issues concerning copyright and privacy in all the professions related to knowledge organization.

In any case, if those who work in knowledge organization want to be considered reliable and socially relevant professionals as much as doctors, lawyers or engineers, they must - like them - prepare, adopt and publicize codes of ethics that ensure citizens that their technical competences will be used only to facilitate the retrieval, evaluation, understanding and critical use of information and not to deceive and manipulate the users of information systems, directing them fraudulently to the most useful choices for contractors and leaders of the professionals themselves.

In order to extend and study in depth the research outlined here, one can consider, together with the texts cited by Bair (2005) and by Ridi (2011, 130-131) for the ethics of cataloguing and by Rosenfeld and Morville (2006, 344) for the ethics of the design of information technologies, also the proceedings of two recent conferences dedicated to the ethical issues involved in information organization (Lee 2009, Olson 2012) and the ample bibliography of the essay of



Milani and Guimarães (2011) about the risks associated with the inevitable presence of choices and points of view in any activity related with knowledge representation and organization.

## References

- Bair, Sheila. 2005. Toward a code of ethics for cataloging. *Technical services quarterly* 23n1: 13-26.
- Bowker, Geoffrey C. and Star, Susan Leigh. 1999. *Sorting things out: classification and its consequences*. Boston: MIT.
- Danielson, Elena S. 2010. *The ethical archivist*. Chicago: Society of American Archivists.
- Edson, Gary. 1997. *Museum ethics*, edited by Gary Edson. London-New York: Routledge.
- Gebolys, Zdzisław and Tomaszczyk, Jacek. 2012. *Library codes of ethics worldwide: anthology*. Berlin: Simon Verlag für Bibliothekswissen.
- IFLA. 2012. *IFLA code of ethics for librarians and other information workers*, 12 August 2012. Available <http://www.ifla.org/faife/professional-codes-of-ethics-for-librarians>.
- Kennedy, Helen. 2012. *Net work: ethics and values in web design*. New York: Macmillan.
- Lee, Hur-Li. 2009. The ethics of information organization, proceedings of the conference held May 22-23, 2009, in Milwaukee, Wisconsin, guest editor: Hur-Li Lee. *Cataloging & classification quarterly* 47: 609-686.
- Macfarlane, Bruce. 2009. *Researching with integrity: the ethics of academic enquiry*, New York: Routledge.
- Marstine, Janet C. 2011. *The Routledge companion to museum ethics: redefining ethics for the twenty-first century museum*, edited by Janet C. Marstine. New York: Routledge.
- Mason, Richard O., Mason, Florence M. and Culnan, Mary J. 1995. *Ethics of information management*. Thousands Oaks, Calif.: Sage.
- Meyers, Christopher. 2010. *Journalism ethics: a philosophical approach*, edited by Christopher Meyers. New York: Oxford University Press.

- Milani, Suellen Oliveira and Guimarães, José Augusto Chaves. 2011. Problemas éticos em representação do conhecimento: uma abordagem teórica. *DataGramaZero: revista de ciência da informação* 12n1. Available [http://www.dgz.org.br/fev11/Art\\_04.htm](http://www.dgz.org.br/fev11/Art_04.htm).
- Olson, Hope A. 2012. Proceedings of the 2nd Milwaukee conference on ethics in information organization, June 15-16, 2012, School of information studies, University of Wisconsin-Milwaukee, Hope A. Olson, conference chair. *Knowledge organization* 39: 309-397.
- Preer, Jean. 2008. *Library ethics*. Westport, Conn.: Libraries Unlimited.
- Quinn, Michael J. 2012. *Ethics for the information age*. 5th edition. Boston: Addison-Wesley.
- Ridi, Riccardo. 2007. *La biblioteca come ipertesto: verso l'integrazione dei servizi e dei documenti*. Milano: Editrice Bibliografica.
- Ridi, Riccardo. 2010. *Il mondo dei documenti: cosa sono, come valutarli e organizzarli*. Roma-Bari: Laterza.
- Ridi, Riccardo. 2011. *Etica bibliotecaria: deontologia professionale e dilemmi morali*. Milano: Editrice Bibliografica.
- Rosenfeld, Louis and Morville, Peter. 2006. *Information architecture for the world wide web*. 3rd edition. Sebastopol, Calif.: O'Reilly.
- Woodward, Diana. 1990. Introduction. *Library trends* 39: 2-7.