

WORLD UNIVERSAL BIBLIOGRAPHY IN THE LIBRARY-INFORMATION SPHERE: A STRATEGY FOR DIGITAL TRANSFORMATIONS

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Abstract

Through a retrospective multilevel guide of the world universal bibliography (1902-) the cultural globalization in the biblio-info-noosphere, preceded by an *information blast* and *information market* in the 1940s, seen in the focal point of the genre – *triunity: goal – addressee – selection* as relativistic system reticular method for generating of global (universally significant) bibliographic pictures of the *material* and *ideal* orders of modeling. The library-information universe (science – practice – education) is the subject of the study. Through the methodology of the library comparativistics is achieved the goal of the study – to reveal as a geocosmic diversity of the globality the holistic inventions of *trivium: library-bibliography-book science in a triad: addressee – library – document* by the rudiments of the *cognitive cluster*.

This study presents a practical methodological key to a strategy for digital transformations of the relation science – practice – training.

Keywords: world universal bibliography, digital transformations, multilevel universal bibliographic guide, goal – addressee – selection, library-bibliography-book science, addressee – library – document, material – ideal orders of modeling

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1 INTRODUCTION

Diverse **multilevel retrospective guides of the world (international) universal bibliography** to the 1940s of 20 c. – a start of the *information blast* in the world and the eve of the publication in 1942 of *A Road to the Books* by T. Borov show the **chronotope** of the genre as a planetary phenomenon: **USA (1902-) – Germany (1905-) – UK (1905-) – Czech Republic (1919-) – Poland (1925-) – Italy (1930-) – Japan (1930-) – France (1936-) – Russia (1940-) – Bulgaria (1942-)...**

The presented **toponymy**:

- indicates the **countries** with high level of development of the bibliography and of the **bibliography of second and third degree** (which with *Road to the books* by T. Borov Bulgaria became *humanitarian commensurable*);
- determines **the schools of epistemological (universal, philosophical, humanitarian, bibliographic) knowledge – national and world centres**;
- designates the **genesis** of the tradition – the term should be a **scientific-practical movement for secondary-documental treatment of the information environment of the planet as a system multidimensional multilevel semiologic entity**: biblio-info-noosphere. The phenomenology of the generated in the universal international *retrospective* bibliography of the bibliography guide of 20th c. is a result of the initially **comparative bibliographic cognitology** which is *conditio sine qua non* and *modus vivendi* – of **trivium: library- bibliography-book science**. The biblio-info-noosphere in the guide concerned is observed in **systematic orders**:
- **principal diversity**, reflecting many levels (*factographic, primary- and secondary-documental, metasytematic, philosophical*) of modeling;
- **indicating (naming) of this diversity** is realized **through contextual synonymy of n-denominations** (*universal, world, international ... bibliography*);
- **this diversity** is generated from the **triunity: goal – addressee – selection** – relativistic cultural-information systematic secondary-documental *reticular (network)* method for affording global (universally important) systematic bibliographic pictures of the information realities.

The triunity: goal – addressee – selection: SCREEN (term by T. Borov) of the international *retrospective* bibliography of *second and third degree cultural-phenomenological* advises (1902-) the **globalization of the world and creates its information model as a universal polyphony**, observed from the centres of the **library-bibliographic-book science**.

2 METHODOLOGY

Trough a draft of the *notable works from modern times* is tagged **for reference-information goals the outline** of the **LIBRARY-BIBLIOGRAPHIC SCHOOLS** in the knowledge cluster of *trivium: library- bibliography-book science* as **a moment of philosophical-information picture of the biblio-info-noosphere** in which originate **postnonclassical humanitarian knowledge and humanitarian bibliography**. Historiographically and cognitologic-rhizomatic seen, **any of the elements of trivium: library-bibliographic-book science** by itself is a **cluster**. Library-information universe (science – practice – training) is a subject of the study. Through the methodology of library comparativistics is achieved the goal of the study – to be revealed as a geocosmic diversity of the unity of holistic inventions of *trivium: library-bibliographic-book science* in a *triade: addressee – library – document* in the rudiments of the knowledge cluster.

3 RESULTS

The *differentiated* knowledge from the Enlightenment and its **library-information scientific theoretical-practical complex** is divided into various approaches and subjective views between **principally polyvariant concepts for OBJECT and SUBJECT** – *according to what is subordinated* (term: T. Borov): **library studies, bibliography, book science, polygraphy, archivistics, palaeography, documentalistics, informatics, information technologies...**

This complex is designated by **forms of trivium: library-bibliographic-book science** which in the terms of an *information blast* are *integrated* and *transformed* in an *interdisciplinary conglomerate*:

1) **UBIQUITY (with different intensity) geographical dissemination** (it is no more prerogative of different countries);

2) **ELECTRONIZATION** (inserting in the *information industry* and subordination to the *information market*);

3) **REALIZATION of the library society as a unity of the global process of informatization and international consolidation of the forces.**

The classical concepts of **MATERIAL ground of the objects** of any of the elements of *trivium: library-bibliographic-book science* and their **subjects** (library, bibliography, book/document) are valid for a part of the specialists even today, but in *trivium* and in each of its elements **PARADIGMATICALLY** penetrates the **nonclassical concept of the IDEAL** as an architect of the *material*.

The arc of the postnonclassical *trivium: library-bibliographic-book science* is **introduced in a historiographic and cognitive context** through **emblematic innovation works** (with emphasize on Bulgarian exterioric) [1-3].

In it the system **BINARY OBJECT: BOOK/DOCUMENT – READER** is naturally **TRIPLE SUBJECTIVIZED** and in *library studies* – through **book science** – by introduction in its semantic chain of the phenomenon **LIBRARY (!): BOOK/DOCUMENT – LIBRARY – READER**, in the *bibliography* – through **library studies** by introduction of the phenomenon **BIBLIOGRAPHY (!): BOOK/DOCUMENT – BIBLIOGRAPHY – READER**

The presentation naturally does not necessitate the *library studies* [1] and *bibliography* [2] to receive here detailed rescription of their **postmodern hypostasis** because **the phenomenon LIBRARY and phenomenon BIBLIOGRAPHY are SOCIALLY structured** and bear their intrinsic for all times universal humanitarian image of the society, to whom belong: the first (**LIBRARY**) – to a greater extent; the second (**BIBLIOGRAPHY**) – to a lesser extent (in a ontological respect the second phenomenon is not only institutional cause but above all – a **CREDO of particular persons**).

For the last affirmation attested the whole history of the bibliography (*comp.*: the unique case: **acad. Nikola Mihov /1877-1962/** – the greatest Bulgarian bibliographer and encyclopedist ever – declines the office Director of the National Library and quits the position of Director of the Library of Bulgarian Academy of Sciences, in order to devote him to the creation of the foundations of the **Bulgarian bibliographic exterioric**).

Namely the presence of a **bibliographic exterioric** in particular countries is a **decisive precondition** for them in the beginning of 20 c. to appear *the first universal multilevel bibliographic guides to literature*. For Bulgaria the line bibliographic exterioric – **universal retrospective international bibliography** is: **N. Mihov /1915-1935/ – T. Borov /1942/**.

In a very different way is the problem with **OBJECT: BOOK/DOCUMENT – READER** in the **bookscience** [3],

In which the subjectivization in the postmodern philosophical-information paradigm realized through the **SECOND SIGNALLING SYSTEM OF MAN**, and this phenomenon is **GEOCOSMIC** (given in the phylogenese) and drops out the sociological concepts, typical for the traditional classical thinking (books/documents are as *many* as their *perusals*).

4 CONCLUSIONS

The epistemology of an introduced in *historiographic* [4] and *cognitologic* [5] context of the postmodern reality of the biblio-info-noosphere **COGNITIVE CLUSTER** of *trivium: library-bibliography-book science* with its intrinsic internal **differentiation** of the crossing vortices (library science, bibliography, book science, polygraphy, archivistics, palaeography, documentalistics, informatics, information technologies...) structures the **system semiologic coherence of the phenomena and their correlation: philosophical-information picture** [6].

The epistemology focuses on the biblio-info-noosphere generating **IMPERATIVE OF PHENOMENOLOGICAL EMPIRIC SUBJECTIONS** of the informatization – *triad*: **ADDRESSEE (A) – LIBRARY (L) – DOCUMENT (D)**.

We consciously are focusing our attention on the **ADDRESSEE (the recipient of the information – Ger.: Adressat)**, perceived in a system globality of the universal bibliographic phenomenology: **GOAL – ADDRESSEE – SELECTION** (and not on the **RECIPIENT** /Lat.: recipient, recipientis – receiver of the information: perceiving **EXTERNAL** impacts – signals. *The addressee of information* is to the letter also its *recipient* but his function of **ADDRESSEE** makes him **SYSTEM ACTIVELY OPERATIVE INTERNAL (!) FORCE – a decisive component of the global bibliographic modeling: GOAL – ADDRESSEE – SELECTION**. In this modeling the addressee is included with its **MENTAL** necessity of professionally structured bibliographic information which form is not only positioning secondary-documental reverberation of the existing documental stream, but also programming, and prognostic effectively creative **STAY of the ADDRESSEE** in the biblio-info-noosphere. Thereby the addressee participates in the informatization with its **MENTALITY** (studied and familiarized BY **BIBLIOGRAPHER** as a necessity of information for the **ADDRESSEE**).

The correlation goal – ADDRESSEE – selection has three functions:

- 1) **modeling** – not only the bibliography is modeling the addressee, but also it makes the same – and the goal, and its selection (bibliography exists not only to reflect secondary-documental the knowledge, but also **TO GIVE IT TO THE ADDRESSEE**);
- 2) **programming** – the bibliography not only reflects documental realm, but it is also a **PROGRAM – INFORMATION MAP (ATLAS) FOR ADOPTION BY THE ADDRESSEE**;
- 3) **prognosting** – the bibliography not only generalize the trunc roads of the knowledge, but also of its **HISTORIOGRAPHIC** base which makes possible the prognosticating of **NEW PATHS and TRUNC ROADS** which are generated not only in the **BIBLIOGRAPHER'S MIND** but also in the **ADDRESSEE'S MIND**.

Lapidary: the presented structure is synthesized on the following grounds.

1. **Triad: addressee of information (A) – library (L) – document (D)** is a **MENTAL FORMATION**, born from the **ONTOLOGIC CHAIN** of dependencies of its elements.
2. **Addressee (A)** of information – “reader” of document (who realizes himself as “vital” indigent in this document: to read it, to give it to other people (or *vice versa*, etc.), because **the document is correlated through the second signaling system by individual way with his memory**, – **ONESELF** became aware as **ADDRESSEE**, and **ONESELF** defines and

position the sense of interrelations in the information reality – ideal and material, and intelligibly encompasses it through his mentality in the arsenal of his lores (actions).

3. **Library (L)** – except the classical type (with alphabetic, subject and systematic configuration of traditional and electronic information resources, reflecting facts, documents, metasystems, philosophical pictures), – in a postmodern nonclassical reality rises to us and between us in an image of an **electronic (digital, virtual, cyberphysical, smart)** [7-10], created and disseminated not by the classic library, and we enter it (virtually – through the technologies, but by the mentality) as **one enter the real world with ideal nature, and to enter it, and to take from it we could only BY OURSELVES (E. I. Ryorih).**

4. **The document (D)** – material or electronic (digital, virtual), which by itself is a form (primary- or secondary-documental) of the **reflected diversity of the world** (physical, biological, cultural) – resuscitates through the meaning of its (of the document) message/messages which (the sense) cosmogonically presupposes **n-views (perusals)** depending of **the individual memory and sensuousness** of the recipient.

The originated from the phenomenological spectrum of the **ADDRESSEE of the information (A)** swirling of the **LIBRARY (L)** and **DOCUMENT (D)** (which also swirled the **ADDRESSEE of the information**) is rationalized in a specific way by the **BOOK SCIENCE** with the originated in it **READER SCIENCE**.

Here take part: and **LIBRARY STUDIES: (L)**, and **BIBLIOGRAPHY: (B)**. And the very **trivium: library-bibliography-book science** – similar to various other system plural variant configurations of the human **mentality (activity)** – creates, disseminates, enlarges the described swirling through the cognitive cluster: library science, bibliography, book science, polygraphy, archivistics, palaeography, documentalistics, informatics, information technologies... This cluster is a **form of enlargement of the trivium: library-bibliography-book science**.

The universal biblio-info-noosphere also has **n-denominations** because it is a fruit of the **REASON and MENTALITY** (most human!) OF THE MAN, and we – people – are living in a **psychocivilization (S. Lem): psychoshere – mnemoshere – gnoseosphere**.

For treatment of the problems of the **interrelations between the ideal (invisible ontology) and the real in the information modeling** is perspective the study of the experience of the created in honor of **Michael Polanyi Center (MPC)** at Baylor University, Texas.

It is the first research university center dedicated to the **principle of reasonable conception**. Founded in 1999 with main goal – to develop the **concept of science in a religious aspect** [11]. In this respect is quite interesting the similar activity of the **University of Pasadena and Princeton University** [12]...

The genial German physicist-theoretician, philosopher, Nobel laureate **Albert Einstein** (1879-1955), before being assessed as the best academic of modern time, has the opportunity to travel by bicycle from Switzerland to Italy – when passing near the fairy castles and Benedictine monasteries (he was born in a Catholic family) **has recalled about ANCIENT TALES and LEGENDS which suggested him the IDEA of the THEORY of RELATIVITY**. It is quite emblematic that **Hong Tsi-chen** delivered the **contextual message** of this theory four centuries before Einstein: *The dimensions of the space – are contingent on our mind*. It is curious that the root of this reasoning is in one of the ancient sacred book of the Mankind: *Indeed the memory is larger than the space* – **Upanishads** (transl. A.K.). Perceived in a context of the **term long time (M. Bahtin)** in conformity with the **human intransient values in the constantly changing world: freedom, democracy** [13] (**M. Gorman**), library-information universe of the science – practice – education is reflection of the geocosmic diversity and is an organic part of the natural holistic way to build (reverberate) constantly constructing harmonic universal information environment of the biblio-info-noosphere.

Through the constructed by the human mentality principally eternal **rhizome (absent structure of the information – U. Eco)** is metaphysically restored the lost globality in the universal knowledge which is not paraspaces [14]. It is a **humanitarian dimension of the postnonclassical time-space – paradigmatic nonclassical imperative for correlation of discrepancies**, structured and structuring in the recesses of the rhizome **obscure (philosophically rationalized) ontology of the informatization** [15]. Essentially through the structuring of the absent rhizomatic reference-information carcass of establishing relations among things is created a methodologic key for sustainable strategy for digital transformations of the relation science – practice – training.

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