

Eighth ISKO-Spain Congress

Interdisciplinarity and Transdisciplinarity in the Organization of Scientific Knowledge

**Organized by the University of Leon
Leon, Spain, 18 to 20 April 2007**

Interdisciplinarity draws its strength from the ontological view that reality may be explained from various different angles that permit interpretation of phenomena in a more complete way without becoming mere eclecticism. From an epistemological point of view, interdisciplinarity attempts to unify the field of action of the disciplines that study social facts and phenomena. It has no intention of achieving *a priori* integration of the paradigms of knowledge. Rather, its efforts are aimed at the enrichment and rational exchanging of the methods of various disciplines, to some extent independently of the categories specific to each science, in order to improve study of reality.

Transdisciplinarity, for its part, simultaneously covers what lies between disciplines, cuts across various disciplines or goes beyond any discipline. Its aim is to understand the present world, one essential feature of which is the unity of knowledge. Transdisciplinary research is in no way antagonistic to multidisciplinary and interdisciplinary research, but rather is complementary to it.

As Basarab Nicolescu has pointed out, disciplinarity, multidisciplinary, interdisciplinarity and transdisciplinarity are four arrows for one and the same bow: the bow of knowledge.

Our objective is to make the Eighth Isko Spain Congress a meeting devoted to reflection and applications in the area of transdisciplinary organization of knowledge.

TOPICS

Interdisciplinarity and/or transdisciplinarity of Science in the Knowledge Society.

- Paradigms of modern science
- Scientific maps
- Social networks
- Distributed scientific resources, Grid computing
- Scientific communication

Epistemological foundations of the organization of knowledge.

- Trends in interdisciplinary and/or transdisciplinary research into the organization of knowledge
- Linguistic foundations
- Mathematical foundations

- Social and cultural foundations
- Developments in the organization of interdisciplinary knowledge

Representation and characterization of knowledge in a computerized environment.

- Automatic information processing
- Bibliographic catalogues and databases. FRBR (functional requirements for bibliographic records), FRAR (functional requirements for authority records), FRSAR (functional requirements for subject authority records).
- Metadata and identifiers in a computer environment: Dublin Core, DOI (digital object identifiers), Crossref, and similar.
- Vocabularies, thesauri and classifications
- Ontologies, language and ontology, ontological domains

Recovery of transdisciplinary information

- Semantic information recovery
- Integration of semantic tools
- Interfaces and user interaction
- Expert systems
- User-centred systems

PLENARY LECTURES

Dr. Basarab Nicolescu

Theoretical physicist, CRNS, Université Paris 6

Chair of the International Centre for Transdisciplinary Research and Studies (CIRET)

Fellow of the Rumanian Academy

Dr. Nicola Guarino

Chair of the Laboratory for Applied Ontologies (LOA) at the Institute for Cognitive Sciences and Technologies, National Research Council (ISTC-CNR), Trent, Italy.

Editor of the journal *Applied Ontology* (IOS Press)

DEADLINES

Call for abstracts (500 to 1000 words)

Deadline for receipt of abstracts: 31 July 2006

Deadline for confirmation of acceptance of papers: 30 September 2006

Deadline for submission of complete text of papers: 15 December 2006

COORDINATOR:

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