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Considering an Interdisciplinary Concept of Information for Designing Data Bank Based Information Systems

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Originally I wanted to start the abstract of my article using text modules written similarly in many other scientific articles:

Social reality is characterized by an increasing mechanization. Information and communication technologies become more and more present within all areas of human life. Electronic data sources of so called information systems become an ever-increasing importance and its dissemination by the internet make them to the primary information source for different areas of life. They replace more and more reference books of different nature, like phone book, encyclopedia, dictionary, new paper, official gazette, and so on.

With this introduction the subject of the article (the development of an information system) has been motivated using repeatedly information as a not clearly specified concept. This is quite symptomatic for our time where we may live comfortably and working well with a concept of information not really defined. Anyway the progress of technical sciences in general and of computer science in particular was not slowed down at all by that lack of clearness.

However there is some indication that exactly in computer science and parent areas some processes could be easier elaborated using a broadly supported concept of information. Within the development of data bank based information systems we always are going to realize a realistic image on clearly defined worlds to be managed assisted by computer. It is obvious that such processes can be implemented more effectively and convincing using an interdisciplinary concept of information.

At the 1996 FIS conference in Vienna the author of that abstract presented an interdisciplinary approach [4] on definition of information that is usable for designing information systems in a coherent way. It bases on a description of the world composed by structured things surrounded by a semantic and a syntactic closure of relations to other things of the same world.