FORM Follows KNOWLEDGE A Thematic Synthesis Toward the KMS-based SEMANTIC APPROACH IN ARCHITECTURE SMEs

There is a traceable current methodic shift in the field of Architectural Design which could be explained as the systematic interconnection of scientific method and design methods based on the objectives of the structural logic of Design; the -prospect systematic approach would provide the designers/architects/Architecture SMEs with a possible wide range of technological practical potentials to be deciphered to the operational facilitation in the associated enterprises. The mentioned structural logic could be characterized as a design support facilitation based on the information processing and evaluation for dealing with all aspects of the knowledge in the process as a Knowledge Management System (KMS) in the sense of improving the collaboration and enhancing the Knowledge Management (KM) process. Since the visual aspects of the design process, such as diagrams, contain a structure of natural cognitive networks of relationships, the meaning is situated between the linkages of the network which would be visually presented and actualized by the architectural artifact. The semantic associations would be a strategy-based approach of textual relationship between concepts and knowledge for the textual determination and source-target mapping as an effective tool in term of developing the knowledge mining computational analogy tools. In this paper, the main focus is the dynamicity- and creativity-oriented as a flow of knowledge exchange between the design actors in the knowledge-based architectural decisions. The required knowledge and information analysis in the conceptual phase and the related creative notions, beside the fact that concepts are verbal/textual/visually representable, emphasizes the need of a knowledge mapping as a reliable context for Conceptualization in architecture SMEs. The formalization/formulization of the design knowledge/information and the associated interaction/dynamicity based on the designers’ cognitive/creative attitude are still a field to be developed; in this paper, besides the emphasizing the importance of knowledge and its cognitive approaches, the integration of systematic design approaches and knowledge-based systems, in a semantic sense, have been illustrated. Eventually, the current paper indicates the foundation of a model of such
a knowledge-based semantic manner using a review and thematic analysis method.

کلمات کلیدی:
Architectural Design, Architecture SMEs, Knowledge Management System, Design process, Conceptualization, Semantics

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