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Gestione della terminologia e organizzazione della conoscenza nella digitalizzazione dei processi nella AEC Industry

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Abstract: There is an increasing recognition of the value of effective systems able to correctly manage terminology and to organize knowledge in specialized domains. This paper is a reflection on the relevance of terminology management and knowledge organization in Architecture, Engineering and Construction (AEC) Industry. It highlights the benefits Knowledge Organization Systems (KOS) offer to organizations and experts in facilitating the building process management and reengineering. In particular, we present the experience of the Construction Technologies Institute of National Research Council (ITC–CNR), in promoting consistent terminology and knowledge management within collaborative environments. The future perspective of ITC–CNR is to investigate the possibility to exploit specialized terminology and structured knowledge to enable knowledge–reuse, to preserve and make traceable information about artifacts of the built environments, by enclosing formalized knowledge in the Building Information Modelling (BIM), innovative approach which gives the benefits of a common information platform for projects and which will be adopted by governments within the public procurement in the next future. To support this new way to approach the building process, it is important to conceive strategies and solutions suitable for effectively and permanently managing, organizing and storing information, generated from several interactions between professionals and different stages of the building life cycle.

Keywords: Terminology management, Knowledge organization systems, Architecture, Engineering and Construction, Building Information Modelling.

1. Introduzione

L'innovazione tecnologica è accompagnata dalla crescente produzione di dati e informazioni che necessitano di essere resi accessibili e riutilizzabili, attraverso la messa a punto di sistemi in grado di descriverli e organizzarli secondo un modello comune. Questo approccio richiede l'adozione di buone pratiche fondate sui principi dell'interoperabilità semantica, per i quali le informazioni sono rappresentate in maniera condivisa, sono interconnesse

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