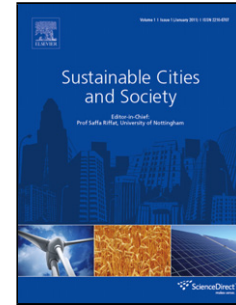


Accepted Manuscript

Title: Toward Improving the Quality Compliance Checking of Urban Private Constructions in Iran; an Ontological Approach

Authors: Hossein Moradi, Mohamad Hassan Sebt, Eghbal Shakeri



PII: S2210-6707(17)30523-1
DOI: <https://doi.org/10.1016/j.scs.2017.12.015>
Reference: SCS 887

To appear in:

Received date: 12-5-2017
Revised date: 6-10-2017
Accepted date: 10-12-2017

Please cite this article as: Moradi, Hossein., Sebt, Mohamad Hassan., & Shakeri, Eghbal., Toward Improving the Quality Compliance Checking of Urban Private Constructions in Iran; an Ontological Approach. *Sustainable Cities and Society* <https://doi.org/10.1016/j.scs.2017.12.015>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Toward Improving the Quality Compliance Checking of Urban Private Constructions in Iran; an Ontological Approach

Hossein Moradi, Mohamad Hassan Sebt*, Eghbal Shakeri

Construction Engineering and Management, Department of civil and Environmental Engineering, Amirkabir University of technology, Tehran, Iran.

Abstract

City, as a complex system, needs to be managed as an integrated entity so that every encumbrance that slow its processes could be eliminated. However, developing a single mature model to integrate the whole processes of the various systems in the city is not practical. Yet, it is possible to develop purposeful and consistent models, for each specific system, that all together eventuate in integrated management. In this regard, the mechanism of constructions quality compliance checking is one out of many systems in Iran that needs to be addressed for integration due to three main reasons; first, the multiplicity of problems in this section; secondly, the multidimensional significance of this section; and finally the ability to improve the status que through using appropriate approach. Accordingly, the present study, by developing an ontology, which is named QA-ontology, as a missing chain, and using existent ontologies, presents a conceptual model. This model takes advantages of the ability of ontologies in information storing as a graph. This type of information storing provides the homogeneous information that is needed for both integration in the quality compliance checking of urban private constructions and assimilation into further extensions of integration in other mechanisms of a city.

Keywords: Urban Private Constructions; Quality Compliance Checking; Urban Processes; Ontology; and Integration

1- Introduction

City with its various fragmented systems functions as an integrated entity with a basic requirement: INTEGRATION. Achieving the objectives of each of these systems in order to meet the goals of urban development is practicable just and just in the presence of integration both horizontally and vertically. Quality Compliance Checking (QCC) mechanism of Urban Private Constructions (UPC) is one of these urban systems, which needs to be investigated. The importance of investigation in this area in Iran is greater, since there are multiplicity and confusion over the responsibilities in QCC mechanism of UPC and there is no determination

Download English Version:

<https://daneshyari.com/en/article/6775338>

Download Persian Version:

<https://daneshyari.com/article/6775338>

[Daneshyari.com](https://daneshyari.com)