Exploring the Blockchain Adoption Directions in the AECO Industry

Mohammad Darabseh¹, João Poças Martins²

Abstract

Blockchain is a digital data and assets protection technology. The growing interest in exploring ways to adopt Blockchain within the architecture, engineering, construction, and operation (AECO) industry activities are expressed by the increasing number of studies discussing this topic. In order to visualise these directions, the article presents an evaluation of this topic available literature. Topics reviewed include Blockchain for BIM, construction processes and construction data integrity. The study contributes to the field by providing a concise evaluation of Blockchain in the AECO industry research and the recent development by highlighting main directions for Blockchain construction-related studies. The study aims to increase awareness about the topic.

Author Keywords. Blockchain, BIM, Intellectual property, Design

¹ CONSTRUCT – GEQUALTEC, Faculty of Engineering (FEUP), University of Porto, Rua Dr. Roberto Frias s/n, 4200-465 Porto, Portugal, (darabseh@outlook.com) ORCID 0000-0002-7443-8326

² CONSTRUCT – GEQUALTEC, Faculty of Engineering (FEUP), University of Porto, Rua Dr. Roberto Frias s/n, 4200-465 Porto, Portugal, (jppm@fe.up.pt) ORCID 0000-0001-9878-3792