

## **An Analytical Survey of Construction Changes: Gaps and Opportunities**

**Authors :** Ehsan Eshtehardian, Saeed Khodaverdi

**Abstract :** This paper surveys the studies on construction change and reveals some of the potential future works. A full-scale investigation of change literature, including change definitions, types, causes and effects, and change management systems, is accomplished to explore some of the coming change trends. It is tried to pick up the critical works in each section to deduct a true timeline of construction changes. The findings show that leaping from best practice guides in late 1990s and generic process models in the early 2000s to very advanced modeling environments in the mid-2000s and the early 2010s have made gaps along with opportunities for change researchers in order to develop some more easy and applicable models. Another finding is that there is a compelling similarity between the change and risk prediction models. Therefore, integrating these two concepts, specifically from proactive management point of view, may lead to a synergy and help project teams avoid rework. Also, the findings show that exploitation of cause-effect relationship models, in order to facilitate the dispute resolutions, seems to be an interesting field for future works.

**Keywords :** construction change, change management systems, dispute resolutions, change literature

**Conference Title :** ICCEM 2016 : International Conference on Construction Engineering and Management

**Conference Location :** Paris, France

**Conference Dates :** March 14-15, 2016