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Social and Engineering Aspects of Construction Site Management using Simulation and Social Network Analysis

By Seyed Alireza Abbasian Hosseini

GRIN Verlag Dez 2015, 2015. Taschenbuch. Book Condition: Neu. 210x148x16 mm. Neuware - Doctoral Thesis / Dissertation from the year 2015 in the subject Engineering - Civil Engineering, grade: PhD, North Carolina State University, language: English, abstract: The crews/actors/subs during a construction project make relationship and communicate with each other on the jobsite primarily when they work in a task sequence or when they work in the same working area at the same time. These interdependencies can have various impacts on their performance, the decisions their supervisor make and their action from both engineering and social aspects. The main focus of the past research is on the project parties' relationship based on the information exchange and formal communication, while the research pertaining to the interpretation and investigation of the construction crews/trades' interdependencies during the construction project is very limited. How are the construction jobsite actors connected in a construction jobsite How do the existing interdependencies among them affect their performance And how can understanding these interdependencies be beneficial for construction site managers The primary goal of this research is to better understand the existing interdependencies among the construction crews/trades/subs and its impact. Particularly, the objectives of this research are to:...


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