World Academy of Science, Engineering and Technology International Journal of Structural and Construction Engineering Vol:8, No:05, 2014

A Social Network Analysis for Formulating Construction Defect Generation Mechanisms

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Abstract : Various solutions for preventing construction defects have been suggested. However, a construction company may have difficulties adopting all these suggestions due to financial and practical constraints. Based on this recognition, this paper aims to identify the most significant defect causes and formulate their defect generation mechanism in order to help a construction company to set priorities of its defect prevention strategies. For this goal, we conducted a questionnaire survey of 106 industry professionals and identified five most significant causes including: (1) organizational culture, (2) time pressure and constraints, (3) workplace quality system, (4) financial constraints upon operational expenses and (5) inadequate employee training or learning opportunities.

Keywords: defect, quality, failure, risk

Conference Title: ICSCE 2014: International Conference on Structural and Construction Engineering

Conference Location: Berlin, Germany Conference Dates: May 22-23, 2014