UNIVERSITY OF CAMBRIDGE
Department of Engineering

CONSTRUCTION ENGINEERING MASTERS DISSERTATION ABSTRACT

Building Performance and Big Data – A Triangulated Approach to Continuous Improvement in Operation.

Despite notable improvements in the delivery of built environments and their related information, there remains a significant gap between the design and delivery process itself, and the reality of operating, maintaining and using those environments. Existing attempts at operational performance analysis only interrogates building use at a superficial level, and fails to produce true insight into the success or failure of a scheme.

This study seeks to define and test a new, triangulated approach to building performance analysis. The study utilises the latest environmental data collection technologies to investigate the objective performance of an environment, and an aligned occupancy survey to elicit the occupants' opinion of that environment. The methodology is tested using a case study approach within an existing London Grade-A office building

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