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Multi-dimensional building performance data management for continuous commissioning

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Abstract

Current buildings' performance assessment tools are deficient in their ability to integrate and process building monitoring data to generate actionable information that can assist in achieving a higher level of building performance. Therefore, this paper addresses this problem by proposing the design and implementation of a multi-dimensional data analysis concept for building monitoring data. Firstly, the development of the multi-dimensional performance data model is described based on data warehouse technology. Secondly, a dedicated graphical user interface is introduced bringing the benefits of the multi-dimensional model to different stakeholders. Finally, the advantages of multi-dimensional performance data management is demonstrated in a real life case study for on-site and e-service performance management.



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Keywords

Data warehouse; Multi-dimensional data analysis; Building performance; Energy management; User interfaces

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