

Title (en)
METHOD FOR OPTIMISING THE ENERGY EXPENDITURE AND COMFORT OF A BUILDING

Title (de)
VERFAHREN ZUR OPTIMIERUNG DES ENERGIEAUFWANDS UND DES KOMFORTS EINES GEBÄUDES

Title (fr)
PROCÉDÉ POUR L'OPTIMISATION DES DÉPENSES ÉNERGÉTIQUES ET DU CONFORT D'UN BÂTIMENT

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Abstract (en)
[origin: WO2019166710A1] The present invention relates to a method for optimising the energy expenditure and the comfort of a building, including a plurality of comfort systems provided with an on-line consumption sensor (10), a plurality of local environment data sensors (20) associated with an identifier of a zone of said building, and at least one server (30) for collecting and recording said timestamped data remotely transmitted by said consumption sensors and for collecting data external to the building as well as data characterised in that it includes the following steps:
- constructing and saving a simplified digital model of the thermal behaviour of said building; - a step of calibrating the simplified digital model calculated during the preceding step; - a step of validating the calibrated digital model calculated during the preceding step by comparing the digital variables obtained by predictive processing of said calibrated model and the digital variables stored by said server over a period of several days; - a step of calculating digital parameters for resource allocation by applying a Pareto optimum calculation applied to said validated calibrated digital model.

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