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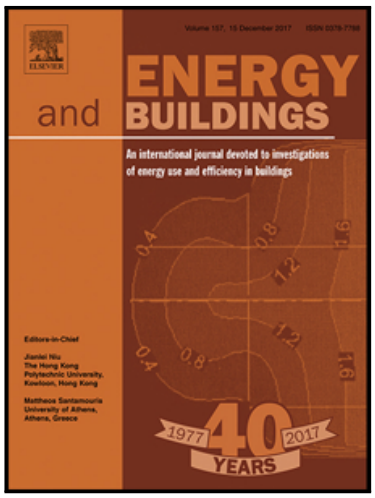

Energy-cost analysis of HVAC system for office buildings: Development of a multiple prediction methodology for HVAC system cost estimation

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Highlights

- We examined the cost relationship between sub-systems of HVAC for energy efficient buildings.
- The method for predicting the investment cost of the possible 960 combinations of HVAC system was suggested
- The design rules to optimize the energy-cost level for HVAC system were investigated.
- The effects of the HVAC design factors of investment cost on the energy performance were analyzed quantitatively.
- The air conditioning system, sub-system of HVAC was found to be the most significant design factor.

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