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Energy Consumption Model with Energy Use Factors of Tenants in Commercial Buildings Using Gaussian Process Regression

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HIGHLIGHTS

- Identified the influence of the energy use factors (e.g., occupant related factors, indoor air conditions such as heating set temperature, equipment types such as heating system, lighting system, and plugged load) for the energy consumption of each tenant in commercial buildings
- Established a method to identify the combination of variables that could provide a more accurate estimation of energy consumption using Gaussian process regression
- Identified that the significant variables to consider for developing an energy consumption model differ depending on the tenant usage, i.e., office or retail

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