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(57) Abstract :

The present disclosure pertains to a system for controlling heating, ventilation, and air conditioning (HVAC) device associated with a space, the system includes one or more mobile computing devices (104) associated with one or more entities (106), where the one or more mobile computing devices (104) facilitates selecting an optimum temperature range for the space by the one or more entities (106) and correspondingly generate a first set of signals, a processing unit (202), a heating, ventilation and air conditioning (HVAC) device (108). The processing unit (202) is configured to update and train a training and testing dataset based on the extracted optimum temperature associated with each of the one or more entities (106), analyze the updated optimum temperature and correspondingly determine a temperature limit and transmit a set of control signals to the HVAC device (108), facilitates controlling the HVAC device (108) and enables maintaining determined temperature in the space.

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