

## **DEVELOPMENT OF A PMV-BASED THERMAL COMFORT MODELLING**

### **Abstract**

This paper concentrates on the modelling development for a PMV-based thermal comfort system. Operators can define their own expression towards the surroundings by inserting the respective value of PMV and the system will generate the compressor and fan of the air conditioning system to create a thermally comfortable environment. This algorithm has already defined its respective values of air temperature and air velocity for different values of relative humidity and PMV. Apart from that, it also has been completed with duty cycle so that the air conditioning system will work smartly with lower cost and energy consumed.

**Author Keywords** - Climatic modelling; Predicted Mean Vote (PMV); Thermal comfort