|  |  |
| --- | --- |
| **Title:** | Designing of a Low Cost Handy Cooling System |
| **Author(s) Name:** | Mohammad Zeyad; Susmita Ghosh |
| **Contact Email(s):** | susmitaghosh14@aiub.edu |
| **Conference Name:** | 2018 4th International Conference on Electrical Engineering and Information & Communication Technology (iCEEiCT) |
| **Type of Publication:** | Conference |
| **Publisher:** | IEEE |
| **Publication Date:** | 31 January 2019 |
| **ISBN:** | Electronic ISBN:978-1-5386-8279-1  Print on Demand (PoD) ISBN:978-1-5386-8280-7 |
| **DOI:** | 10.1109/CEEICT.2018.8628088 |
| **URL:** | https://ieeexplore.ieee.org/document/8628088 |
| **Other Related Info.:** | pp. 557-560  Keywords: Thermistor (NTC 1K), relay (5V DC), DC  motor (5V), transistors (NPNBC547 & NPN2N2222) |
|  | |

|  |  |
| --- | --- |
| **Abstract:** |  |
| This paper illustrates an automatic temperature controlling system using Negative Temperature Coefficient (NTC) thermistor as a temperature sensor. The aim of this work is to create a comfortable & low-cost cooling device which can save energy through the use of temperature sensor and thus helps to promote the efficiency. This system is specially designed for controlling temperature of devices like laptop, desktop etc. This process uses a relay as a switch which helps to turn on a 5V DC motor which regulates the fan if temperature of the thermistor exceeds a pre-set level. Cost of the entire system has been analysed in the paper and it is verified that the system is low-priced compared to other existing cooling system. So, this design can be used mainly as a low-cost cooling device. | |