Impact of Background Devices on Modern Energy Disaggregation Nhi Nguyen, Class of 2023

NILM (Non-intrusive Load Monitoring) a computational technique that separates aggregate power data monitore from a single point sourcieto constituent appliance loads, employed provide feedback occupants about how energy is used within their home, allowing them to make more informed choices regarding conserving power. One of the local challenges in NILM is performing accurate disaggregation in emvients containing large numbers of independent devices, which include most read buildings. Considering the impracticality of complete energy breakdowns, load disaggregation often focuses instead on specific devices of interest called foreground devices while leaving the large de-2.3 ()10. (d -2.64665) MAC and the large of the local forest of the
In the second stage employed the ranking algorithm to estimate the five most significant background devices. Since the anking algorithm requires a choice of aggregation algorithm and as a target metric considered 4 differen Funded
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