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OUTLINE

Towards green mobile: Cross-layer-Predict-Store 'and'/'or' Transmit.

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With the proliferation of smartphones across the globe, the energy consumption has also increased at a staggering rate. It is expected that this growth will keep its momentum for foreseeable future due to the rising number of mobile phone users in developing countries and subsequent enormous content consumption demands from all the ubiquitous mobile smartphone users.

In this paper we propose to solve this energy saving riddle. We group our system design to span across different stages. Each stage trying to accomplish its desired task.

- **Stage I:** User profiling stage to understand user behavior
- **Stage II**: V-GPS:: Location prediction stage which tries its best to predict the future location of the user.
- **Stage III**: Cross-layer approaches which intelligently decide when to schedule tx data and progress towards greener by reducing overall energy consumption.

In this paper we show with our prototype implementation, this novel system approach "Predict- Store/Tx" using an android application considerably saves energy.