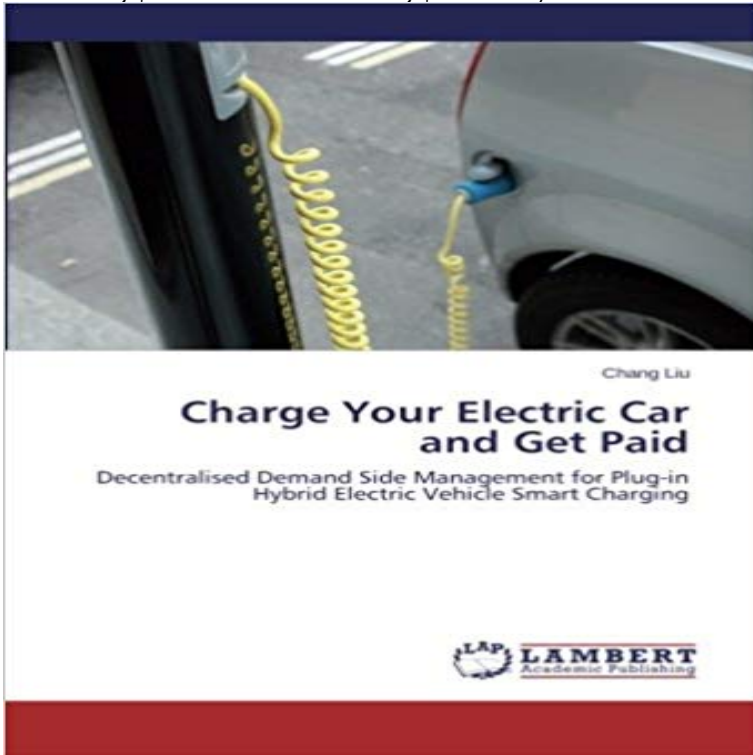


Charge Your Electric Car and Get Paid: Decentralised Demand Side Management for Plug-in Hybrid Electric Vehicle Smart Charging



This book is motivated by mitigating the impact of the penetration of Electric vehicle on the power supplier. It sequentially proposes three distributed frameworks for demand dispatch in smart grid networks. The overall goal is to properly shift plug-in hybrid electric vehicle (PHEV) demand to fill the grid demand valley and at the same time minimise the user inconvenience. The final design does not require any price negotiation, thus instead, the aggregator sets the optimal price directly, leading to very fast response and accurate demand dispatch for flat valley-filling. And the price is controllable by the scaling factor. However, all those features are achieved by requiring all the connected PHEVs to uploading their willingness-to-pay (WTP) parameters.

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