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Optimal Charging Control Of Electric

This book introduces the optimal online charging control of electric vehicles (EVs) and battery energy storage systems (BESSs) in smart grids. The ultimate goal is to minimize the total energy cost as well as reduce the fluctuation of the total power flow caused by the integration of the EVs and renewable energy generators.

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Optimal Charging Control of Electric Vehicles in Smart ...

Optimal Charging Control of Energy Storage and Electric Vehicle of an Individual in the Internet of Energy with Energy Trading. IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 1. Abstract—Developing green energy to be applied in green cities has received much attention. The Internet of energy (IoE) effectively improves networking of distributed green energies through extending smart grids with bi-directional transmission of energy and distributed renewable energy facilities.

Optimal Charging Control of Energy Storage and Electric ...

Abstract This book introduces the optimal online charging control of electric vehicles (EVs) and battery energy storage systems (BESSs) in smart grids. The ultimate goal is to minimize the total...

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Optimal Charging Control of Electric Vehicles in Smart Grids

DOI: 10.1109/TPWRS.2010.2086083 Corpus ID: 14899957. Optimal Charge Control of Plug-In Hybrid Electric Vehicles in Deregulated Electricity Markets @article{Rotering2011OptimalCC, title={Optimal Charge Control of Plug-In Hybrid Electric Vehicles in Deregulated Electricity Markets}, author={N. Rotering and M. Ili}, journal={IEEE Transactions on Power Systems}, year={2011}, volume={26 ...

[PDF] Optimal Charge Control of Plug-In Hybrid Electric ...

Optimal Charge Control of Plug-In Hybrid Electric Vehicles in Deregulated Electricity Markets. Abstract: Plug-in hybrid electric vehicles are a midterm solution to reduce the transportation sector's dependency on oil. However, if implemented in a large scale without control, peak load increases significantly and the grid may be overloaded.

Optimal Charge Control of Plug-In Hybrid Electric Vehicles ...

The analysis of the EV charging Since the DC charging pile rated power is 30kW, less than 0.3C EV charging power, so the general EV charging mode is 30kW charging until full. The optimal EV charging strategy takes advantage of DC microgrid, charging process optimization as shown in Fig.2.

Optimal EV Charging Control Strategy Based on DC Microgrid

Managing grid-connected charging stations for fleets of electric vehicles leads to an optimal control problem where user preferences must be met with minimum energy costs (e.g., by exploiting ...

(PDF) Optimal control of an electric vehicle's charging ...

A review of the optimal strategies is proposed and as such six algorithms are presented: three smart unidirectional and three smart bidirectional charging algorithms where the Vehicle-to-Grid (V2G) and the Vehicle-to-Home (V2H) concepts were exploited. In addition an innovative V2G algorithm named Optimal Logical Control (V2G-OLC) is introduced in this paper.

Optimal Minimization of Plug-In Electric Vehicle Charging ...

The uncoordinated integration of electric vehicles (EVs) severely deteriorates the operational performance of a distribution network. To optimize distribution network performance in an EV charging environment, this paper presents a two-stage optimization approach, which integrates coordinated EV charging with network reconfiguration. A formulation to minimize system power loss is presented ...

An Integrated Approach to Optimal Charging Scheduling of ...

DC Fast Charging Station (DCFCS) is essential for widespread use of Electric Vehicle (EVs). It can recharge EVs in direct current in a short period of time. In recent years, the increasing penetration of EVs and their charging systems are going through a series of changes. This paper addresses the design of a new DCFCS for EVs coupled with a local Battery Energy Storage (BES).

[PDF] Optimal design of DC fast-charging stations for EVs ...

In an electric vehicle charging control context two cases can be distinguished. The first case refers to a set-up where vehicles are social welfare maximizing entities and cooperate in view of minimizing the overall population cost. ... electric vehicle charging control, optimal energy management in buildings and design of sensing devices ...

Price of anarchy in electric vehicle charging control ...

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a joint OPF-charging (dynamic) optimization. A solution to this highly nonconvex problem optimizes the network performance by minimizing the generation and charging costs while satisfying the network, physical and inelastic-load constraints. A global optimum to the joint OPF-charging optimization can be found

Optimal Charging of Plug-in Hybrid Electric Vehicles in ...

In day-ahead scheduling, with the estimated power generation and load demand, the optimal charging/discharging scheduling of EVs during 24 h is achieved by serial quadratic programming. With the optimal charging/discharging scheduling of EVs, the daily load curve can better track the generation curve.

Day-ahead optimal charging/discharging scheduling for ...

A two-stage optimal charging scheme based on transactive control is proposed for the aggregator to manage day-ahead electricity procurement and real-time EV charging management. The transactive control concept was proposed by a number of research groups and tested in a few pilot projects for the building and residential energy management.

Two-Stage Optimal Scheduling of Electric Vehicle Charging ...

the EV can be considered as a controllable load. With optimal charging or smart charging for the battery, vehicle owners could maximize their profits by purchasing energy at the lowest possible electricity price. Moreover, charging during the off peak hours will help the load shape and avoid peak load.

Optimal Charge control of Electric Vehicles in Electricity ...

PDF Optimal Charging Control Of Electric Vehicles In Smart Grids Springerbriefs In Electrical And Computer Engineering minimizing the power losses. As the exact forecasting of household loads is not possible, stochastic programming... Optimal Charging Control of Electric Vehicles in Smart Grids The optimal charging of battery packs has been less investigated

Optimal Charging Control Of Electric Vehicles In Smart ...

Optimal Charge Control of Plug-In Hybrid Electric Vehicles In Deregulated Electricity Markets Niklas Rotering, Student Member, IEEE and Marija Ilic, Fellow, IEEE Abstract—Plug-In Hybrid Electric Vehicles (PHEVs) are a mid-term solution to reducing the transportation sector's dependency on oil.

Optimal Charge Control of Plug-In Hybrid Electric Vehicles ...

the finite-horizon optimal control problem formulated in this section are presented. Roughly speaking, this optimal control problem formalizes the intent of flattening the total demand profile, which is captured by the objective function $L(r) = L(r_1, \dots, r_N) := \sum_{t=1}^T U(D(t)) + \sum_{n=1}^N r_n(t)$: (1) In (1) and hereafter, $r := (r_1, \dots, r_N)$ denotes a charging