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#### International Journal of Electrical Power and Energy Systems

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## A robust optimization method for optimizing day-ahead operation of the electric vehicles aggregator



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#### ARTICLEINFO

Dispusheed market Electrical Webscles (EWs) EWs regardings them. Historychical againstancion

#### ABSTRACT

of the power grids is increasing Due to consistently growing electric vehicles (E) cathon energy m of several with the main grid is necessary to all over the world. In near future a peoper coobe developed. This system will mainly deal with the uncharging and discharging patterns of each assoclasted EV to stabilize the grid. By deploy verbicle to gr (i) framework excess energy stored in the EV very controlled in es. In order to motivate EV owners to take bettery could be supplied back to the part in the V2G operation this paper sposes a profit enhancing Ex-aggregation system which contributes to the Real Time and Day-shead (DA) et mize the energy consumption cost while enhancing the material to 1 appliers. T profits of both EV owners and enramework determines the technical characteristics and uncertain driving patterns of each a It stage hierarchical optimization model is proposed to regulate the decision. aggregation. The upper stage optimizes the profit maximiliting aggregation of prothering the EVs charging and discharging operation, while a sequence of singencies i.e., woest EVs State of Charge (SOC) and reduced energy llower stage constraintriading with the market on in last, these two layers are conjointly transformed into a mixedence model which provides a completely uni-modular characteristic of the invergenal is and Bastleys which convexifies. In last, we have extensively analyzed the performance of the the street of and report to th the pre-established stochastic and optimization models as well as comparison ues proves its effectiveness. or attento MARK BOOKS

#### 0. Nomenclature

The detail of notations uses this paper is below, please note. the superscripts ... and ". the projected a steinmined values respectively.

Briefflet sein	nes and Sets
Tr.	Number of time at 100 fed by r.
197	Number of the second se
Personne	Norma Company
AL.	and charge power of a linkW.
40	gimel a second of an EV battery in KW.
400	A SANDA
10.	Management of energy stored in an EV bottery in kWh.
All	Minument of energy stored in an EV luttery in EWh.
ALC:	Minimal of hourly time slots in which as EV , should be availed
	during the officed time borizons.
Mari	Total time horizons in which optimization is possible.
	Continued on next colors

(continued)		
P-1	Overall Capacity of the grid in kints.	
CC.	Cost of penalty 8/kWb.	
CT.	Linear approximation slopes of the EV bettery life as a function of charging discharging cycles.	
State of the same	Maximal availability time of an EV , during the time horizon y.	
Married .	Missional availability time of an EV , during the time horizon r.	
40.0	Overall efficiency of an EV	
4	Anticipated amount of energy, required daily for driving an EV	
List of year	tables	
$\sigma_{(i,j)}/\sigma_{(i,j)}^{\prime}$	Rated Charging and Discharging power which can be supplied by an EV <sub>x</sub> during time horizon x.	
100	Total cost of degradation of an EV - bettery with respect to its charging or discharging cycles during the time horizon r.	
Aller .	Present SOC in kWh of an EV, battery during the time horizon r.	
200	Total amount of power exchanged by an aggregator during the time fortion r.	
W. 1		

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E-mail addresser, utwide-timent 1220 gmett.com (U. ur Rehman), muhammad riangles und edu pk (M. Rian), muhammad yaqqobides und edu pk (M.Y. Want).

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Tara L. Kuther

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