Patent Search

Invention Title	A SYSTEM AND METHOD BASED ON NEURAL NETWORK MODEL OF ENERGY DEMAND IN ELECTRIC VEHICLE
Publication Number	36/2022
Publication Date	09/09/2022
Publication Type	INA
Application Number	202241049865
Application Filing Date	31/08/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIOTECHNOLOGY
Classification (IPC)	A61K0038000000, C12N0015700000, C07K0016280000, H04N0021442000, G06Q0010080000

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Abstract:

The present invention refers to a system and method using an LSTM neural network to predict total EV fast-charging power demand. A virtual senso electromobility to calculate the amount of energy an electric vehicle (EV) needs to go a specific distance, given the EV's consumption and the kilomet and destination. By knowing the present state of charge, the desired state of charge, the nominal power of the battery and the charging station, and can also anticipate the cost and time of the battery charge session.

Complete Specification

Description:[001] The present invention relates to a system and method to predict total Electric vehicle power demand. The invention more particu and method to predict total Electric vehicle fast-charging power demand.

BACKGROUND OF THE INVENTION

[002] The following description provides the information that may be useful in understanding the present invention. It is not an admission that any provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[003] Further, the approaches described in this section are approaches that could be pursued, but not necessarily approaches that have been prev pursued. Therefore, unless otherwise indicated, it should not be assumed that any of the approaches described in this section qualify as prior art r inclusion in this section.

[004] In current scenarios, the huge growth and widespread use of electric vehicles has made them a crucial part of smart transportation networks of greenhouse gas emissions that harm the environment. [005] Accordingly, on the basis of aforesaid facts, it needs the reason to understand the these vehicles has also grown in importance with the rise in the number of electric vehicles (EV) in recent years. Because of this, accurately forecast electric vehicle charging is crucial to reducing the strain on electric networks and lowering the cost of charging. Due the features of EV charging pov such as a wide range of fluctuation related to the random behavior of EV users and its sequential characteristics, it is feasible to take into account L forecasting EV charging power demand. So, this study suggests using an LSTM neural network to predict total EV fast-charging power demand. Witl methods and tools are suggested to calculate EV parameters, manage battery technology, charging, and power grid concerns, and regulate vehicle

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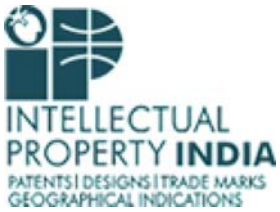

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202241049865
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	31/08/2022
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TITLE OF INVENTION	A SYSTEM AND METHOD BASED ON NEURAL NETWORK MODEL OF ENERGY DEMAND IN ELECTRIC VEHICLE
FIELD OF INVENTION	BIOTECHNOLOGY
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	09/09/2022

Application Status

APPLICATION STATUS	**Awaiting Request for Examination**

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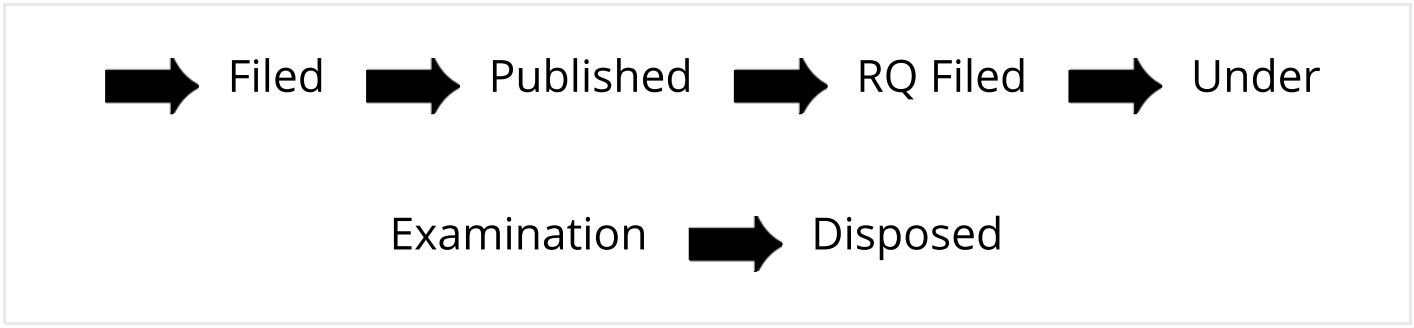

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