# Patent Search

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**Abstract:**

MACHINE LEARNING APPROACHES TO ENHANCE INTRUSION DETECTION IN IOT ELECTRIC VEHICLE CHARGING INFRASTRUCTURE A method for controlling a plurality equipped in a vehicle, comprising: identifying a plurality of chargers, each configured to charge at least one battery supplying power to the vehicle via an on-board ne receiving an identification and at least one parameter communicated via an on-board network from each identified charger; and the first path is for power to be trans between a traction battery and a first component. The second path is for electricity to be transferred between the traction battery and a second component. A netwo detection and prevention system that detects unknown network intrusion packets using an anomalous behavior detection technique and simultaneously generates r signatures based on the packets' common partial information and applies them to a signature-based detection system The combined alarm signal is determined usir majority detection output from at least two detectors as well as the metadata. The metadata may contain information about adverse conditions that decrease one or these detectors' detection capabilities. FIG.1

Complete Specification

Description:MACHINE LEARNING APPROACHES TO ENHANCE INTRUSION DETECTION IN IOT ELECTRIC VEHICLE CHARGING INFRASTRUCTURE

Technical Field

[0001] The embodiments herein generally relate to a method for a machine learning approaches to enhance intrusion detection in IOT electric vehicle charging infrastructure.

Description of the Related Art

[0002] To propel the vehicle, a hybrid electric vehicle may use an internal combustion engine and an electric motor powered by an energy storage device such as primary battery. This combination improves total fuel efficiency by allowing the internal combustion engine and electric motor to work within their respective efficie ranges. Environmentally friendly automobiles include Hybrid Electric Vehicles (HEVs) and Electric Vehicles (EVs). An HEV typically employs two or more sources of po such as an internal combustion engine and an electric motor, whereas an EV is propelled by one or more electric motors that use electrical energy stored in a recha battery or other energy storage device. Electrified cars differ from traditional motor vehicles in that they are selectively driven by one or more battery-powered elec machines. System and method for fast producing and validating new signatures relevant to the technique and using the confirmed signatures to the signature-base detection system to immediately prevent network intrusion It is all about. There are numerous technologies available for detecting intruders entering a location. Pa infrared (PIR) detection and video motion detection (VMD) are two technologies commonly employed in today's security business.

[0003] A pure electric car may use electrical energy stored in batteries to power an electric motor, propelling the vehicle and activating an auxiliary drive. A pure e

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