

ABSTRACT

Disclosed is a system, including a processor, for determining, over a predetermined time horizon, a charging schedule for a plurality of vehicles affiliated with a charging station, by obtaining: a first parameter indicative of a state of health of an electrochemical cell of at least one vehicle among the plurality of vehicles; a second parameter indicative of a state of energy of the electrochemical cell of the vehicle; a third parameter indicative of a demand over the predetermined time horizon, for a vehicle having a threshold energy level; a fourth parameter indicative of an operational capacity of the charging station; and determine, for the vehicle, a control signal related to the charging schedule based on, at least one of the first parameter, second parameter, third parameter and/or fourth parameter. Further disclosed is a control device for said system, and a method for operating the system.

FIG. 1