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Title
(EN) ELECTRIC VEHICLE MANUFACTURING PROCESS AND METHODS USING DEEP LEARNING

Abstract
(EN) The coordinated charging of electric vehicles (EVs) enhances the overall efficiency of the power grid because it prevents overloading of the distribution system, improves the quality of the electricity delivered, and reduces voltage fluctuations. Furthermore, synchronized charging contributes to the flattening of the load profile. As a result, an effective coordination mechanism is essential for the security of the distribution grid and its components. The significant amount of electricity used by electric vehicles while charging has unavoidable negative consequences for the power infrastructure. Additionally, with the rising usage of electric vehicles, an efficient solution for the coordination of EV charging is urgently needed, especially in light of the predicted expansion of EV fast chargers.