Efficient Resource Allocation Strategies for Electric Vehicles in Smart Grids

Mots clés :
- Directeur de thèse : noël CRESPI
- Co-encadrant(s) :
- Unité de recherche : Services répartis Architectures MOdélisation Validation Administration des Réseaux
- Ecole doctorale : École Doctorale Informatique, Télécommunications, Électronique de Paris
- Domaine scientifique principal: Divers

Résumé du projet de recherche (Langue 1)

The main objectives of this thesis are as follows: 1-To design and develop efficient mechanisms to respond to the electricity demand of Electric Vehicles (EVs). The focus is on providing solutions under realistic assumptions (e.g., developing online algorithms that do not rely on future information of EVs, considering physical properties of EVs in formulation, etc.). 2-To study the effect of provided solutions on the smart grid. Meaning that the scheduling solutions should be integrable to the main grid. 3-To evaluate proposed methods by real data to better understand their performance. More-over, the developed mechanisms should be compared to the methods which are implemented in real-world applications.