Proposition de recherche doctorale

Deterministic Networking for the Industrial Internet of Things

Mots clés :
- Directeur de thèse : pascale MINET
- Co-encadrant(s) :
- Unité de recherche : INRIA-Paris
- École doctorale : École Doctorale Informatique, Télécommunications, Électronique de Paris
- Domaine scientifique principal: Divers

Résumé du projet de recherche (Langue 1)
The goal of this research is to conduct a rigorous study on the capabilities of TSCH (Time Slotted Channel Hopping) technology for wireless sensor networks and identify its performance bounds (latency, throughput, reliability, power consumption). The idea is two-fold: -(1) define the "box" of constraints TSCH technology can be used in, and quickly identify unrealistic assumptions, -(2) determine the theoretical performance bounds of TSCH networks. These results will be compared against solutions developed in the IETF 6TiSCH working group, and by other researchers (e.g. EVA research team).

Résumé du projet de recherche (Langue 2)
- Determination of the theoretical performance bounds of Time Slotted Channel Hopping in wireless sensor networks

Informations complémentaires (Langue 1)
- Strong relationship with the standardization: 6TiSCH working group of IETF