

# L'optimisation d'algorithmes répartis de placement de données dans les nœuds terminaux (box)

## Mots clés :

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- **Co-encadrant(s)** :
- **Unité de recherche** : Laboratoire d'informatique de Paris 6
- **Ecole doctorale** : École Doctorale Informatique, Télécommunications, Électronique de Paris
- **Domaine scientifique principal**: Divers

## Résumé du projet de recherche (Langue 1)

Designing new on-line data storage and data sharing solutions. Current solutions rely on big data centers, which induce many drawbacks: (i) a high cost, (ii) proprietary solutions, (iii) inefficiency (one single location, not necessarily close to the user). The goal is to tackle these issues by designing a distributed/decentralized solution that leverage edge resources like set-top boxes. Design new placement/replication strategies taking into account quality of service (QoS) needs in a heterogeneous environment. The evaluation of the proposed approaches will be made by both simulations (using tools like CPLEX, PeerSim or OMNeT) and experimentations on real testbeds (using platforms like Grid'5000 or PlanetLab).