

# Peer Discovery for HELIOS Platform

Finding peers in a p2p network in a privacy preserving way using DHT.

We consider the problem of how to tell your friends in a p2p network **how to contact you** **without revealing your IP address** to all others?

We use **distributed hash tables** (DHT) and **encryption**.

In our solution

- The encrypted IP address is written in the DHT in a location only friends can find
- The IP address can be decrypted using a key that also is written in the DHT
- The location of the key is only known to the friends
- The key is encrypted using another key that only friends know (or that key can also be found encrypted in the DHT... )