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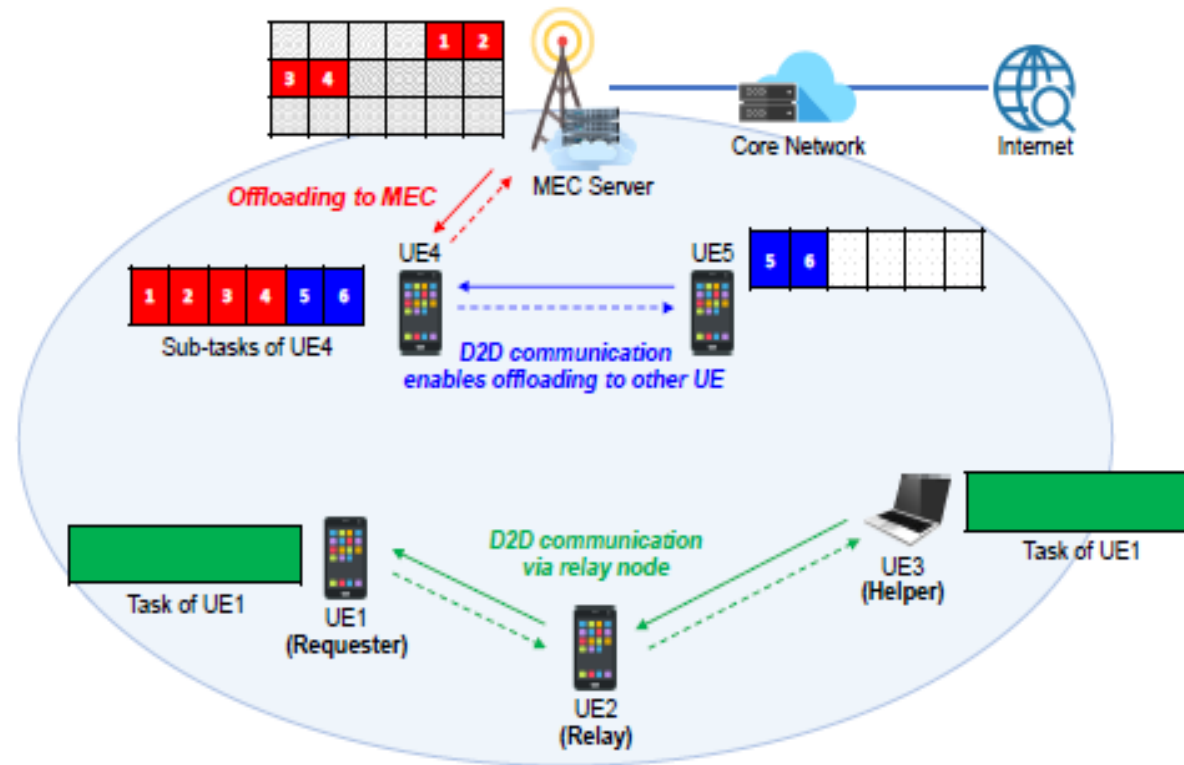
Deutsche Telekom chair of Communication Networks

OberSeminar

Computation offloading in MEC

Winter Semester 2019

Device-enhanced task offloading in MEC



Setup:

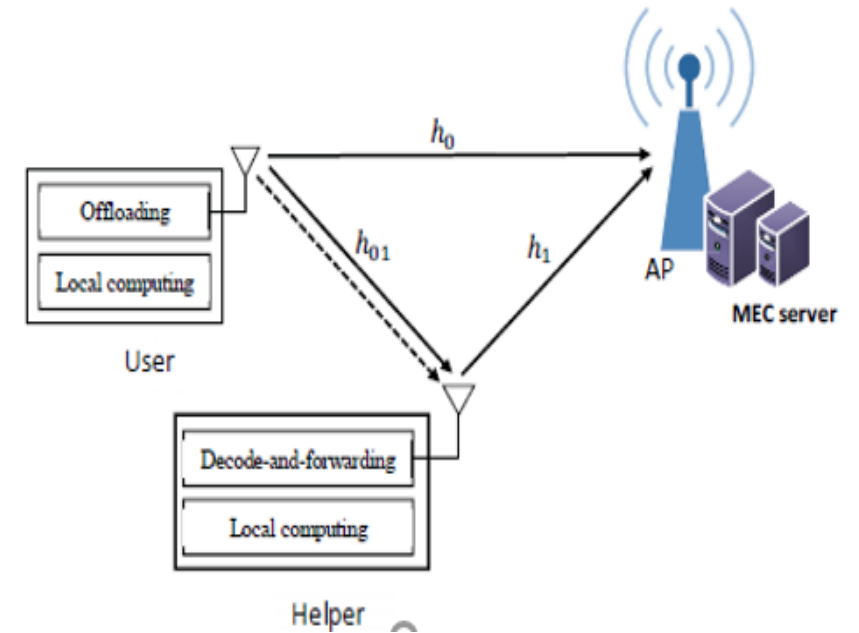
- A basic three-node MEC system: two UEs, one as the resource-requesting node and the other as the helper/relay with one AP attached to a MEC server in the middle.
- The UE computation tasks are assumed to be partitionable.

Target:

- Minimizing the total energy consumption at both UE respect to UE's latency-constraint computation requirements.
- The method should be also examined for the partitioned subtasks of a task with the order constraints.

Gains:

- Learn how to work with MatLab
- Learn about MEC
- Learn about D2D communication



X. Cao, F. Wang, J. Xu, R. Zhang and S. Cui, "Joint computation and communication cooperation for mobile edge computing," 2018 16th International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt), Shanghai, 2018, pp. 1-6.