

In this talk, we consider the problem of computing compact routing tables for planar graphs in the HYBRID communication model. Our idea is based on a new insight into our distributed padded decomposition scheme for planar graphs. It combines state-of-the-art distributed approximation algorithms [ITCS '21, STOC '22] with state-of-the-art padded decomposition schemes for sequential models [STOC '15, APPROX '20].

This talk is focussed on the high level construction and how it can be translated to other (restricted) graph classes and other problems.

Moreover, the talk contains a mini-review on PODC '23 where I identified some new exciting direction for this approach and hybrid networks at large.