Abstract: Abstract: 5G is unique in its promise of ultra-reliable low latency communications, not just more bandwidth than 4G, to enable a new set of applications like robotics, AR/VR and haptic communications. 6G is expected to continue this trend with its promise of even lower latency. This requirement means that every layer of the protocol stack has to be viewed afresh, leading to exciting new research problems. We will present work on mmWave base station planning using stochastic geometry, ultra-fast handoffs at the link layer, and low latency transport layer protocols.

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