Mixed Reality (MR) offers new ways to handle space and how space is perceived by users of respective applications. In this talk, I will present various research contributions from the UMTL group, that address various aspects related to that topic: How to take advantage of physical and virtual decoupling to provide a larger flexibility when interacting in MR-spaces, how to alter the perception of space to improve user experiences and how to include haptic illusions in spatial interactions.

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