

Nonmyopic Data Association Aware Belief Space Planning for Robust Active Perception (Technion)

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Belief Space Planning is a way of planning under uncertainty when the state of the system is unknown. Inference about the probability distribution over the space (belief) is carried out based on future observations, based on the assumption that data association is known and perfect. This method provides a solution which excludes implausible data associations, avoiding catastrophically bad planning. This is useful in Applications such as SLAM, navigation of autonomous cars and drones.

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