	Knowledge of the environment								
2D metric	c map	2D costmap	3D metric map	Complete	Partial	Unknown	Perfect data	Approximative data	Free unknown space hypothesis
[34], [29], [15], [11] [Proj	, [25],], [4], p]	[10], [7]	[35], [31], [23], [16]	[35], [34], [29], [15], [4]	[31], [16], [Prop]	[25], [11], [23], [10], [7]	[35], [34], [29], [25], [11], [Prop]	[31], [23], [16], [15], [10], [7], [4]	[25], [23], [11], [10], [7], [Prop]

	Obstacle characteristics										
Naive 2D projection	2D Projection using Convex- Hull		Only polygonal obstacles	Only rectangular obstacles	Human obstacle	Moving obstacle	Metadata on obstacle's physics			Obstacle can be rotated in the normal to the 2D $$\operatorname{plane}$$	
[35], [34], [25], [16], [15], [11], [4]	[31], [29], [23], [Prop]	[23], [16], [15], [11], [10], [7], [4]	[35], [34], [31], [29], [Prop]	[25]		[7], [Prop]	[35], [34], [31], [29], [15]	[35], [34], [31], [29], [25], [23], [16], [15], [11], [10], [7], [4], [Prop]	[25]	[35], [34], [29], [16], [15], [4]	

Robot characteristics									
HRP2 Robot	PR2 Robot	GOLEM Krang Robot	Custom robot vehicle for MAGIC 2010 Competition	Pepper Robot	Nondescript humanoid robot	Nondescript wheeled robot	Limited field of vision	Unlimited field of vision	
[35], [31], [23]	[16]	[15], [4]	[10], [7]	[Prop]	[34], [29]	[25], [11]	[25], [23], [16], [11], [10], [7], [Prop]	[35], [34], [31], [29], [15], [4]	

	Problem class					
Robot can translate on the plane	Robot can rotate in the plane	Lift & Drop	Pull	Push	L1	LkM
[35], [34], [31], [29], [25], [23], [16], [15], [11], [10], [7], [4], [Prop]	[35], [34], [31], [29], [25], [23], [16], [15], [11], [10], [7], [4], [Prop]	[35]	[34], [31], [29], [16], [15], [11], [4]	[34], [31], [29], [25], [23], [16], [15], [11], [10], [7], [4], [Prop]	[35], [34], [31], [25], [23], [15], [11], [10], [7], [4], [Prop]	[29], [16]

Path Planning Algorithm(s) and heuristics								
A*	ARA*	D* Lite	BFS	RRT	Standard Heuristic for Path Planning	Custom Heuristic for Path Planning	Supplementary Heuristics	
[34], [31], [29], [25], [Prop]	[10]	[11], [7]	[29]	[23], [16], [15], [4]	[34], [31], [25], [11], [10], [Prop]	[29]	[34], [31], [29], [25], [16], [11], [10], [7], [4], [Prop]	

Evalı	Evaluation and evolution of an obstacle's "movable" characteristic and its associated cost								
"Movabilit (re)evaluat on runtim	ed on the obstacle's physics	Manipulation cost depends on a constant common to all obstacles	Cost is estimated on runtime	Cost is pre- estimated by a heuristic					
[25], [23], [1 [15], [11], [1 [7], [4], [Pr	6], 0), [35], [34]. [31] 12)	[25], [11], [Prop]	[10], [7]	[11]					

Object mar	nipulation maneuver pla	Planning taking uncertainty into account							
Kinematic/Friction constraints taken into account Limited grasping points number No concern about grasping points		Adaptive obstacle approach procedures	Use of a Kalman filter	Use of e- shadows	Use of PRM + MDP + MonteCarlo	Use of PBRL	Pointcloud correction		
[31], [15], [4]	[35], [34], [31], [29], [25], [23], [16], [15], [4], [Prop]	[10], [7]	[31], [16], [15], [10], [7], [4]	[16], [10], [7]	[16]	[15], [4]	[4]	[23]	

Evaluation in a simulated/real setting		Computation time	Optimality and completeness			Optimality target			
Evaluation in a real- world setting	Evaluation in a simulation	Real time	Guaranteed Global Optimality	Guaranteed Local Optimality	Guaranteed Completeness	Energy optimality	Distance optimality	Time optimality	Other optimality
[31], [23], [16], [10], [7], [4]	[35], [34], [29], [25], [15], [11], [Prop]	[34], [31], [29], [25], [23], [16], [11], [10], [7], [4], [Prop]	[34], [15]	[11], [Prop]	[34], [31], [15]	[35], [34], [31], [25], [15], [11], [4]	[35], [29], [23], [16], [7], [Prop]	[15], [10], [7], [4]	[34], [29], [23], [16], [15], [7], [Prop]

Social ac	cceptability	Number and Density of obstacles					
Mention of social norms/concerns	Takes social norms into account	Maximal tested quantity of "movable obstacles" $>= 20$	$\label{eq:maximal tested quantity of movable obstacles} \begin{tabular}{ll} Maximal tested quantity of "movable obstacles" <20 \\ \end{tabular}$	Mention of the concept of obstacle density			
[34], [23], [Prop]	[Prop]	[34], [25], [15], [11]	[35], [31], [29], [23], [16], [10], [7], [4], [Prop]	[25], [11]			