

Context	Problem	Description	Instances
arcade	Blackjack_arcade	A card is randomly drawn from a deck and added to the player hand, the goal is to stop with the highest value of the hand without going over 21.	0
arcade	Eight_arcade		0, 1
arcade	Pong_arcade	Squares are moved to adjacent empty cells until a specific arrangement is achieved.	0
arcade	Sokoban_arcade	Single player pong/tennis problem.	0
arcade	Sudoku_arcade	A person pushes boxes in a warehouse onto designated storage areas, difficult domain due to dead ends.	0, 1
arcade	Tetris_arcade	The sudoku number puzzle.	0
arcade	TowerOfHanoi_arcade	Tetris is the classic block stacking game.	0
arcade	Zombies_arcade	The classic tower of Hanoi puzzle, where disks must be stacked onto a given rod.	0
		An epidemic game in which humans avoid becoming infected by zombies.	0, 1, 2, 3
ipcc2011	CooperativeRecon_MDP_ipcc2011	There is a 2d grid with an agent, a base, some hazard squares, and objects in different locations.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2011	CooperativeRecon_POMDP_ipcc2011	There is a 2d grid with an agent, a base, some hazard squares, and objects in different locations. This is the pomdp version.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2011	CrossingTraffic_MDP_ipcc2011	In a grid, a robot must get to a goal and avoid obstacles arriving randomly and moving left.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2011	CrossingTraffic_POMDP_ipcc2011	In a grid, a robot must get to a goal and avoid obstacles arriving randomly and moving left. This is the pomdp version.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2011	Elevators_MDP_ipcc2011	This domain has a number of elevators delivering passengers to either the top or the bottom floor.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2011	Elevators_POMDP_ipcc2011	This domain has a number of elevators delivering passengers to either the top or the bottom floor. This is the pomdp version.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2011	GameOfLife_MDP_ipcc2011	A simple DBN to encode Conway's cellular automata game of life on a grid.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2011	GameOfLife_POMDP_ipcc2011	A simple DBN to encode Conway's cellular automata game of life on a grid. This is the pomdp version.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2011	Navigation_MDP_ipcc2011	In a grid, a robot must get to a goal G, and every cell offers the robot a (different) chance of disappearing.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2011	Navigation_POMDP_ipcc2011	In a grid, a robot must get to a goal G, and every cell offers the robot a (different) chance of disappearing. This is the pomdp version.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2011	SkillTeaching_MDP_ipcc2011	The agent is trying to teach a series of skills to a student through the use of hints and multiple choice questions.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2011	SkillTeaching_POMDP_ipcc2011	The agent is trying to teach a series of skills to a student through the use of hints and multiple choice questions. This is the pomdp version.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2011	SysAdmin_MDP_ipcc2011	An example RDDL description for the well-known SysAdmin problem.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2011	SysAdmin_POMDP_ipcc2011	An example RDDL description for the well-known SysAdmin problem. This is the pomdp version	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2011	Traffic_CTM_MDP_ipcc2011	A simple binary version of the cell transition model (CTM) for modeling traffic.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2011	Traffic_CTM_POMDP_ipcc2011	A simple binary version of the cell transition model (CTM) for modeling traffic. This is the pomdp version	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2014	AcademicAdvising_MDP_ipcc2014	In this domain, a student may take courses at a given cost and passes the course with a probability determined by how many of the prerequisites they have successfully passed.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2014	AcademicAdvising_POMDP_ipcc2014	In this domain, a student may take courses at a given cost and passes the course with a probability determined by how many of the prerequisites they have successfully passed. This is the pomdp version	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2014	CrossingTraffic_MDP_ipcc2014	In a grid, a robot must get to a goal and avoid obstacles arriving randomly and moving left.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2014	CrossingTraffic_POMDP_ipcc2014	In a grid, a robot must get to a goal and avoid obstacles arriving randomly and moving left. This is the pomdp version	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2014	Elevators_MDP_ipcc2014	This domain has a number of elevators delivering passengers to either the top or the bottom floor.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2014	Elevators_POMDP_ipcc2014	This domain has a number of elevators delivering passengers to either the top or the bottom floor. This is the pomdp	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2014	SkillTeaching_MDP_ipcc2014	In this domain, the agent is trying to teach a series of skills to a student through the use of hints and multiple choice questions.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2014	SkillTeaching_POMDP_ipcc2014	In this domain, the agent is trying to teach a series of skills to a student through the use of hints and multiple choice questions. This is the pomdp version	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2014	Tamarisk_MDP_ipcc2014	The agent manages the spread of an invasive plant species, by manually intervening to eridaticate them or restore the native species.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2014	Tamarisk_POMDP_ipcc2014	The agent manages the spread of an invasive plant species, by manually intervening to eridaticate them or restore the native species. This is the pomdp version	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2014	Traffic_MDP_ipcc2014	A simple binary version of the cell transition model (CTM) for modeling traffic.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2014	Traffic_POMDP_ipcc2014	A simple binary version of the cell transition model (CTM) for modeling traffic. This is the pomdp verion	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2014	TriangleTireworld_MDP_ipcc2014	In short, this problem was intended to be difficult for determinization/replanning approaches since the highest probability path to the goal is longer than other lower probability (but still possible) paths to the goal.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2014	TriangleTireworld_POMDP_ipcc2014	In short, this problem was intended to be difficult for determinization/replanning approaches since the highest probability path to the goal is longer than other lower probability (but still possible) paths to the goal. This is the pomdp version	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2014	Wildfire_MDP_ipcc2014	A boolean version of the wildfire fighting domain.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2014	Wildfire_POMDP_ipcc2014	A boolean version of the wildfire fighting domain. This is the pomdp version	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
ipcc2018	AcademicAdvising_ipcc2018	In this domain, a student may take courses at a given cost and passes the course with a probability determined by how many of the prerequisites they have successfully passed.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
ipcc2018	ChromaticDice_ipcc2018	Chromatic Dice is a variant of the popular dice game Yahtzee (also known as Kniffel).	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
ipcc2018	CooperativeRecon_ipcc2018	In this domain, the planner controls one or more planetary rovers that examine objects of interest in order to detect life and take a picture of it.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
ipcc2018	EarthObservation_ipcc2018	The Earth Observation domain models a satellite orbiting Earth that can take pictures of the landscape below with a camera.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
ipcc2018	Manufacturer_ipcc2018	In this domain, the agent manages a manufacturing company that buys goods to use them in the production of other goods.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
ipcc2018	PushYourLuck_ipcc2018	As the name suggest, Push Your Luck is an artificial version of a "push your luck" game like, for instance, Can't Stop.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
ipcc2018	RedFinnedBlueEye_ipcc2018	The Red-finned Blue-eye domain tackles the problem of eradicating the invasive Gambusia from the habitat of the red-finned blue-eye.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
ipcc2018	WildlifePreserve_V1_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	1
ipcc2018	WildlifePreserve_V10_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	10
ipcc2018	WildlifePreserve_V11_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	11
ipcc2018	WildlifePreserve_V12_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	12
ipcc2018	WildlifePreserve_V13_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	13
ipcc2018	WildlifePreserve_V14_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	14
ipcc2018	WildlifePreserve_V15_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	15
ipcc2018	WildlifePreserve_V16_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	16
ipcc2018	WildlifePreserve_V17_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	17
ipcc2018	WildlifePreserve_V18_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	18
ipcc2018	WildlifePreserve_V19_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	19
ipcc2018	WildlifePreserve_V2_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	2
ipcc2018	WildlifePreserve_V20_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	20
ipcc2018	WildlifePreserve_V3_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	3
ipcc2018	WildlifePreserve_V4_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	4
ipcc2018	WildlifePreserve_V5_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	5
ipcc2018	WildlifePreserve_V6_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	6
ipcc2018	WildlifePreserve_V7_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	7
ipcc2018	WildlifePreserve_V8_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	8
ipcc2018	WildlifePreserve_V9_ipcc2018	The aim of the Wildlife Preserve domain is to protect a wildlife preserve from poachers by sending available ranger to areas.	9
ipcc2023	HVAC_ipcc2023	Multi-zone and multi-heater HVAC control problem	0, 1, 2, 3, 4, 5, 6, 7
ipcc2023	MarsRover_ipcc2023	Multi Rover Navigation, where a group of agent needs to harvest mineral	0, 1, 2, 3, 4, 5
ipcc2023	MountainCar_ipcc2023	A simple continuous MDP for the classical mountain car control problem	1, 2, 3, 4, 5
ipcc2023	PowerGen_ipcc2023	A continuous simple power generation problem loosely modeled on the problem of unit commitment	1, 2, 3, 4, 5
ipcc2023	RaceCar_ipcc2023	A simple continuous MDP for the racecar problem	0, 1, 2, 3, 4, 5, 6
ipcc2023	RecSim_ipcc2023	A problem of recommendation systems, with consumers and providers	0, 1, 2, 3, 4, 5, 6, 7
ipcc2023	Reservoir_ipcc2023	Continuous action version of management of the water level in interconnected reservoirs	1, 2, 3, 4, 5
ipcc2023	UAV_ipcc2023	Continuous action space version of multi-UAV problem where a group of UAVs have to reach goal positions in the 3d Space	1, 2, 3, 4, 5
gym	Acrobot_gym	The classical acrobot control problem.	0
gym	CartPole_Continuous_gym	A simple continuous state-action MDP for the classical cart-pole system by Rich Sutton, with actions that describe the continuous force applied to the cart.	0
gym	CartPole_Discrete_gym	A simple continuous state discrete action MDP for the classical cart-pole system by Rich Sutton, with actions that describe the direction of the force applied to the cart.	0
gym	MountainCar_Continuous_gym	A simple continuous MDP for the classical mountain car control problem.	0
gym	MountainCar_Discrete_gym	A simple continuous MDP with discrete actions for the classical mountain car control problem.	0
gym	Pendulum_gym	The classical pendulum control problem.	0
gym	Reacher_gym	A generalized version of the reacher domain.	0, 1
or	BinPacking_or	Items of random weight are drawn, the goal is to place them into bins while minimizing the number of bins used and the total weight of each bin is within limits.	0
or	Knapsack_or	Items of random weight and value are drawn, the goal is to place them into knapsacks of limited total weight while maximizing total value of all items.	0
or	Option_or	Exercise an American max option on correlated assets.	0, 1
or	StockSelling_or	Stock liquidation problem by Almgren and Chriss.	0
or	SupplyChain_or	A supply chain with factory and multiple warehouses.	0
or	TSP_or	The travelling salesman problem.	0
rdldsimsim	ComplexSysAdmin_rddlsimsim	The well known sys-admin problem with a number of enhancements.	0
rdldsimsim	Logistics_rddlsimsim	A logistics problem extended from the standard Box-Truck World.	0
rdldsimsim	Pizza_rddlsimsim	A pizza delivery task.	0
rdldsimsim	PropDBN_rddlsimsim	Simple propositional DBN.	0
rdldsimsim	Sidewalk_rddlsimsim	One or more people walking down a sidewalk with 2 lanes.	0, 1
rdldsimsim	Workforce_rddlsimsim	Running a call center.	0
standalone	Bicycle	Control a bicycle physics problem.	0
standalone	Elevators	The Elevator domain models evening rush hours when people from different floors in a building want to go down to the bottom floor using elevators.	0, 1
standalone	HVAC	Room temperature control simulation.	0, 1
standalone	Intruders_Continuous	Continuous intruder detection problem on a unit square.	0
standalone	Intruders_Discrete	Discrete intruder detection problem on a grid.	0
standalone	Navigation_Continuous	Continuous state action navigation problem with regions to be avoided.	0
standalone	PowerGen_Continuous	A simple continuous version of the power generation problem, loosely modeled on the problem of unit commitment.	0
standalone	PowerGen_Discrete	A simple power generation problem loosely modeled on the problem of unit commitment.	0
standalone	Quadcopter	Control a swarm of four-propeller drones in 3D space.	0, 1
standalone	Reservoir_Continuous	Continuous action version of management of the water level in interconnected reservoirs.	0, 1
standalone	Reservoir_Discrete	Discrete action version of management of the water level in interconnected reservoirs.	0, 1
standalone	TrafficBLX_ComplexPhases	BLX/QTM traffic signal control model with a generic phasing scheme. The goal is to control traffic lights to minimize total travel time.	0
standalone	TrafficBLX_SimplePhases	BLX/QTM traffic signal control model with a fixed phase progression consisting of 4 phases. The goal is to control traffic lights to minimize total travel time.	0
standalone	UAV_Continuous	Continuous action space version of multi-UAV problem where a group of UAVs have to reach goal positions in the 3d Space.	0, 1
standalone	UAV_Discrete	Discrete action space version of multi-UAV problem where a group of UAVs have to reach goal positions in the 3d Space.	0
standalone	UAV_Mixed	Mixed action space version of multi-UAV problem where a group of UAVs have to reach goal positions in the 3d Space.	0