





Environment

Actuators

Sensors

Sensors

Sieps besconnie (1

Task Environment properties

| Agent Type Performance Measure | | Environment | Actuators | Sensors Touchscreen/voice entry of symptoms and findings | |
|------------------------------------|--|---|--|---|--|
| Medical diagnosis system | Healthy patient, reduced costs | Patient, hospital, Display of questions, tests, diagnoses, treatments | | | |
| Satellite image analysis system | Correct categorization of objects, terrain | Orbiting satellite, downlink, weather | downlink, categorization | | |
| Part-picking robot | Percentage of parts in correct bins | Conveyor belt with parts; bins | Jointed arm and hand | Camera, tactile and joint angle sensors | |
| Refinery | Purity, yield, safety | Refinery, raw materials, operators | Valves, pumps, heaters, stirrers, displays | Temperature, pressure, flow, chemical sensors | |
| Interactive English tutor | Student's score on test | Set of students, testing agency | Display of exercises, feedback, speech | Keyboard entry, voice | |

Examples of agent types and their PEAS descriptions.

Task Environment Properties Sliepe Jes 6 (onerpio V/ ひん ニャリーはいしこり FULLY OBSERVABLE VS. PARTIALLY OBSERVABLE USIN CONSIN SINGLE-AGENT VS. MULTIAGENT B (961))-Vedous Juspêdons Deterministic vs. nondeterministic Vist by EPISODIC VS. SEQUENTIAL Vigitely - myl STATIC VS. DYNAMIC July 1001-DISCRETE VS. CONTINUOUS KNOWN VS. UNKNOWN - ى لوسم محمل الموس بنزات الرحمارها ي نواند له واطلاعا على وطوفها

حل مهای ملحد روسک طرنج - بازياى رى بى cooperative in the time Tel (in se) iles Deterministic vs. nondeterministic transition function

Nondeterministic Sensor ultrasonic Nondeterministic Sensor

عبط ایم زوید یا توسی ایم عرف این مرفق در راسی مل سر (زی) سند ما توی در راسی مل سر (زی) سند ما توی در راسی مل سر (زی) سند ما توی در مراص لعبر نیم نوند ندارد.

Subgoal عنوی که در مراص لعبر نیم نوند ندارد.

Subgoal ایجام هر فنالست بر سانی تعبری تا تری در ارد.

عدارد مرسال ایجام هر فنالست بر سانی تعبری تا تری در ارد.

فیط ایس در برابر محیط لو با است اگر مالت یا و صغیت (State) محیط در حین لعمم کری کرنگر کول سالند. کول سالند. - محیط ایس ایست اگر سوان و فن کرد مالت محیط از لحیظ ادراک ما لحیظ فعالمیت - محیط ایس باق می ماند. المحل التي المحل المراك المحل المراك en in de sisse moni des KNOWN VS. UNKNOWN - sed ni on molities dans i sen ela se follo de se fol ibul. ربات مریح نها

| Task Environment | Observable | Agents | Deterministic | Episodic | Static | Discrete |
|---------------------|------------|--------|---------------|------------|---------|------------|
| Crossword puzzle | Fully | Single | Deterministic | Sequential | Static | Discrete |
| Chess with a clock | Fully | Multi | Deterministic | Sequential | Semi | Discrete |
| Poker | Partially | Multi | Stochastic | Sequential | Static | Discrete |
| Backgammon | Fully | Multi | Stochastic | Sequential | Static | Discrete |
| Taxi driving | Partially | Multi | Stochastic | Sequential | Dynamic | Continuous |
| Medical diagnosis | Partially | Single | Stochastic | Sequential | Dynamic | Continuous |
| Image analysis | Fully | Single | Deterministic | Episodic | Semi | Continuous |
| Part-picking robot | Partially | Single | Stochastic | Episodic | Dynamic | Continuous |
| Refinery controller | Partially | Single | Stochastic | Sequential | Dynamic | Continuous |
| English tutor | Partially | Multi | Stochastic | Sequential | Dynamic | Discrete |

Examples of task environments and their characteristics.