



ECG DIAGNOSIS

PEAS \ ODESDA \ Agent Type



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This paper talk about the artificial intelligence agent type of ECG Diagnosis project.it is include the following topic:

1-Agent design (PEAS)

2-Environment Properties (ODESDA)

3-Agent type

PEAS

Performance: Accuracy ratio, Cost, Result Delivering ratio.

Environment: Doctors, Patients, Normal People, ECG image.

Actuators: Screen to show the result.

Sensors: Scanner, Camera.

ODESDA

Environment	Observable	Deterministic	Episodic	Static	Discrete	Agent
ECG Diagnosis	partially observable	stochastic	sequential	Semi Dynamic	Continuous	Single

Agent Type

Agent Type	WHY	WHY NOT
Simple-reflex agent	Bec, agent use condition action rule	Bec, agent need memory and this agent type ignore the previous precepts
Model-based agent	Bec, this agent has a clear goal and action depending on history	This agent type is good enough for the ECG Diagnosis agent
Goal-based agent	Bec, agent has some goal information.	Bec, this type may have multiple solutions and the ECG Diagnosis agent has one
utility-based agent	Bec, this type tries to Maximize agent expected happiness	Bec, it May consider multiple goals.

Regarding to ECG agent type

the above table explain that ECG Diagnosis Agent is suitable to be a *Model-based-agent* Type.