

A Mechanical Mind

Artificial Intelligence is a vast research field in computer science, whose major premise is to find connections between the workings of computing machines and biological brains. At the same time, being such a large and sometimes controversial field, an exhaustive listing of exactly what properly constitutes AI can be quite challenging to compile. In ARIES, the tools of AI show up throughout the system.

Our semantics-preserving knowledge representation engine

Pattern classification and scale-finding technologies

Models built as probabilistic belief networks operate in conditions of uncertainty and data scarcity

Rule engine guides the automatic building of models under landscape and user-specific conditions

Relationships between model elements are learned from empirical data

Bayesian decision analysis for forecasting and comparing scenarios

Constraint optimization capabilities to select optimal development strategies