

Aligned Model Representations

Vision
(DL)

Mechanics
(Assumptions)

Control
(Skills)

Interaction
(Pre/Post)

Activity
(Comic Graphs)

Quantitative,
Intermittent

Novelty
Generators



Objects,
Score

Novelty Detection
Consistency-based
Model Formulation

- Entity detection
- Qualitative spatial abstractions

Unstable structure
Novelty detected



Novelty Response
Hypotheses-guided Model Revision

- Model-based diagnosis
- Learning problem formulation

Train new classifier

Target “empty” area



Launch bird 15°

Action Execution

- Strategic interaction selection
- Lifelong learning of parameterized skills
- Zero-shot transfer