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Models of human cognition

Limited environment
Models of human cognition

Limited environment

Real world
Models of human cognition

Real world → moral decision?
LIDA: a general cognitive architecture
LIDA: a general cognitive architecture

1. Environment
2. Senses
3. Sensory Memory
4. Low Level Features
5. Perceptual Memory

1. Solid line: Flow of information
2. Dashed line: Feedback connection

Additionally, there is a natural leaf image on the right side.
LIDA: a general cognitive architecture
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University Grenoble Alpes

LIDA: a general cognitive architecture

- Environment
- Sensory Memory
  - Low Level Features
  - Action Taken
  - Sensory-motor automatism
  - Sensory-Motor Memory
  - Action Selected
- Perceptual Memory
- Transient Episodic Memory
  - Local Associations
  - Cue
  - Perception
  - Build Structures
  - Look at
- Declarative Memory
  - Local Associations
- Global Workspace
  - Conscious Broadcast
- Workspace
  - Percept
  - Build Structures
- Structure-Building Codelets
- Attention Codelets
- Action Selection
  - Instantiate, bind, activate
- Procedural Memory
LIDA: a general cognitive architecture

Moral rules
LIDA: a general cognitive architecture

- Copy computer software
LIDA: a general cognitive architecture

- Copy computer software
- That would be illegal and stealing
- But use it for work-related projects
- Use it also for personal projects
- But not the major use [...]

Moral rules
LIDA: a general cognitive architecture

→ Comprehensive, conceptual and computational model

→ Models both affective and rational features of moral decision-making