

# Accepted Manuscript

Automatic Discovery of Concepts and Actions

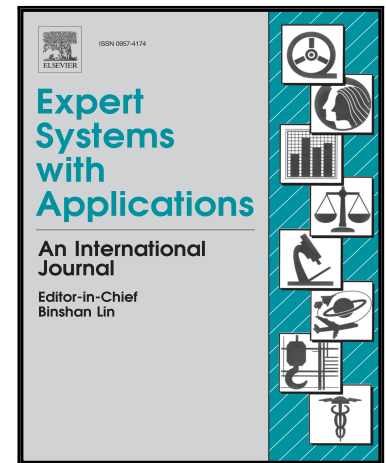
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**Highlights**

- Our method ADC simultaneously discovers relational concepts and learns behaviors.
- ADC automatically constructs its representation of the environment by exploration.
- ADC introduces novel mechanisms to automatically drive its own learning process.
- Knowledge incrementally learned by ADC in a task can be re-used in other tasks.
- Knowledge representation used in ADC is easy to understand by humans.

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