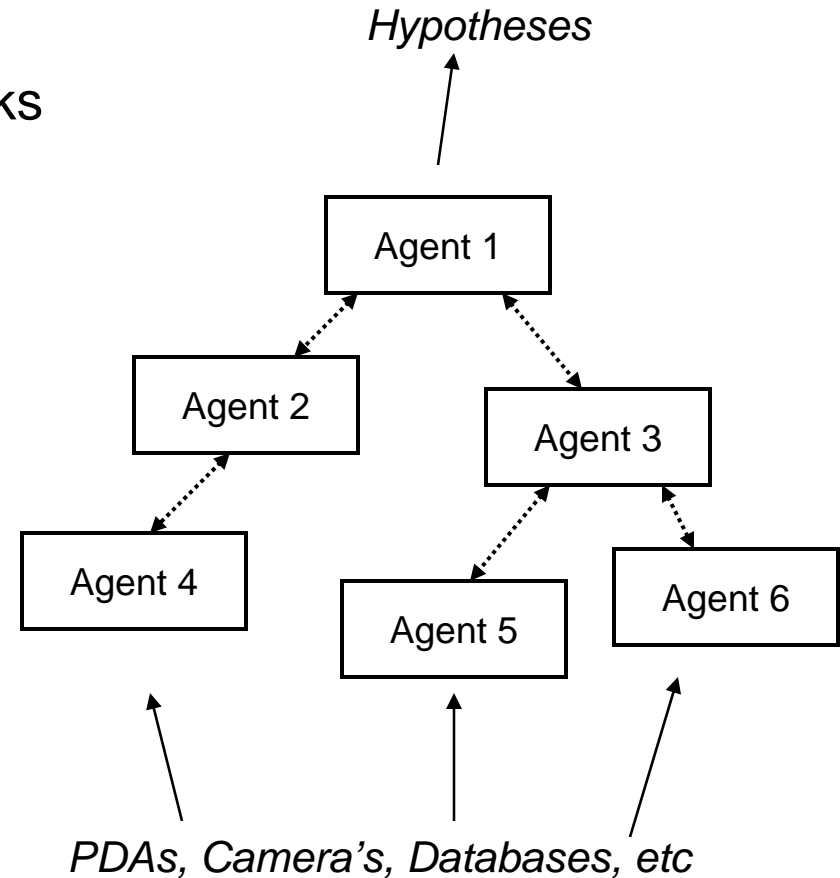




# DOAS Project - DPNs

- Distributed Perception Networks
  - Agent network
  - Local fusion models
  - Probabilistic reasoning (BNs)
  - Mapping from basic (sensor) information to hypotheses





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of  
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# Previous Project

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- Basic agent components and framework
- Self organization method
- Simple belief propagation algorithm
- Conference publication!

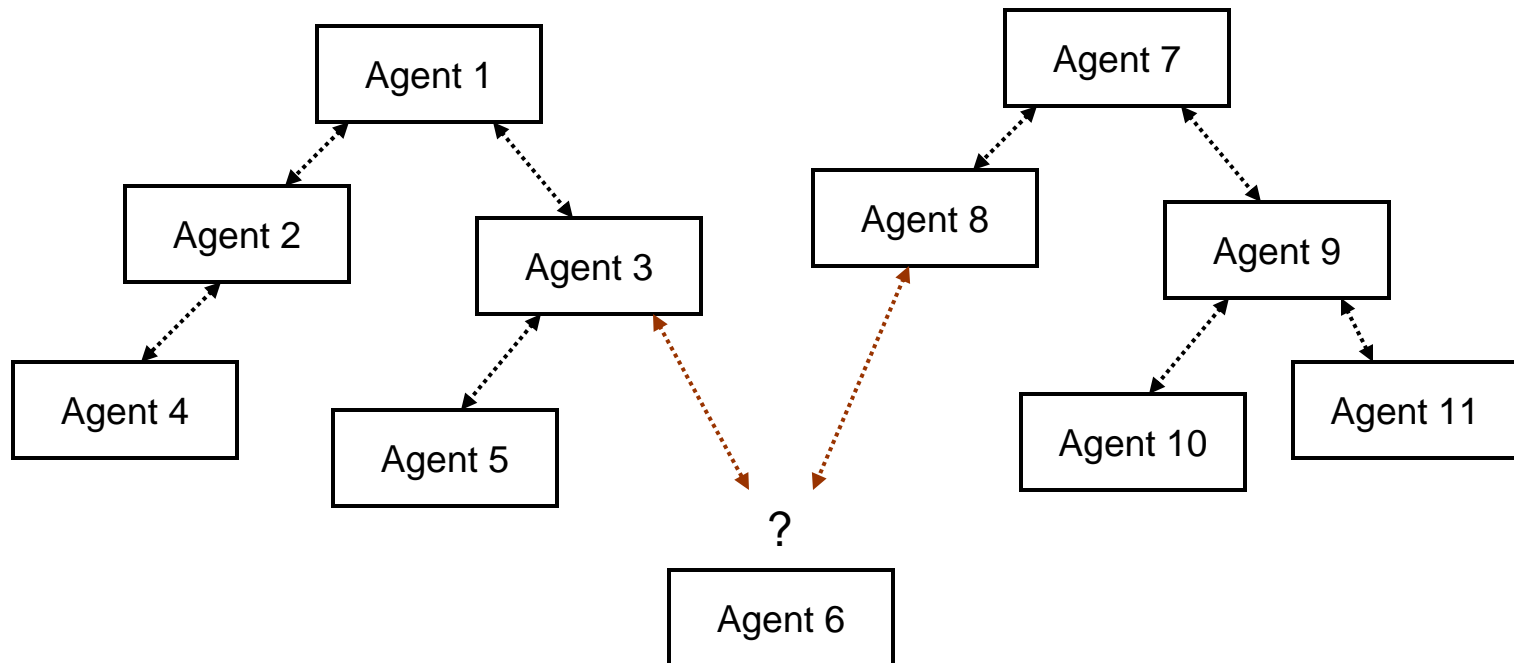
IAS

Intelligent Autonomous Systems



# This Project

- Resource allocation problem
- Solution based on information impact, using local model encoding





# Project Goals

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- Design and implementation of new DPN components
- Implementation and evaluation of different allocation policies
- Theoretical analysis and practical evaluation of several possible speed-ups of the basic algorithm