



When are agents good data miners?

Tim Naylor

University of Exeter, Exeter, U.K.



Agent Architecture

- Linear programming
- Object Oriented Programming
- Agents

The Story So Far

- Alasdair Allan – The philosophy
- Eric Saunders – An Agent
- Tim Naylor – Science use cases.

eSTAR: a problem solved with agents

- The nature of the scheduling problem.
- Contract model.
- Collaborative agent model.

eSTAR: Project Status

- Demonstration versions
 - using Meade telescopes
 - using UKIRT
- Component of RoboNet-1.0
- Funding to grid-enable telescopes.
- Nothing to build the agents.
- Collaboration with
 - Monet (Göttingen)
 - RAPTOR (Los Alamos)
 - NASA Advanced Architectures and Automation

Data mining: a problem solvable with Agents?

- How do we solve astronomy problems?
 - Intelligent resource discovery
 - The world is flat...
- Encapsulating the expertise (and good enough).

When are agents good data miners?

- Probably when the problem is complex, but the solution can be broken down and each part encapsulated.
- But that, and whether we can make them work in the VO, is what we want to find out.