

RMIT Intelligent Agent Group

Agents-vic presentation

Michael Winikoff

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(thanks to Lin Padgham for 2004 slides)



Areas of work

① Software Engineering (AOSE)

- ❖ 1 grant, 5 students, ~1 postdoc
- ❖ Includes Prometheus

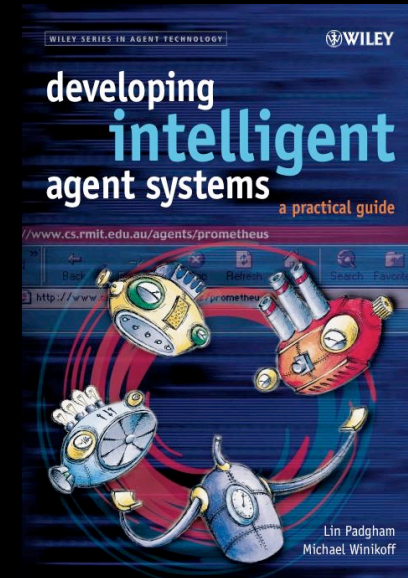
② Open Systems

- ❖ 1.5 grant, 0.5 postdoc
- ❖ Includes work on agent service composition and on teamwork

③ Agent reasoning

- ❖ 1.5 grant, 5 students, 1.5 postdoc
- ❖ Includes logic

★ Application areas: travel & tourism, high energy physics, meteorology



Who?

★ Staff: (academic, post-doc, other)

- ❖ Prof. Lin Padgham - everything :-)
- ❖ Assoc. Prof. James Harland - reasoning, logic
- ❖ Dr. Lawrence Cavedon - Dialogue and Collaboration
 - part-time NICTA
- ❖ Dr. Michael Winikoff - AOSE, reasoning, some open systems
- ❖ Dr. Sebastian Sardiña- Planning & learning
- ❖ Dr. John Thangarajah - AOSE
- ❖ Dr. Bao Quoc Vo - Negotiation / open systems
- ❖ Ian Mathieson, Shankar Srikantiah

Students

AOSE
Reasoning

- ✦ Chris Cheong: **designing agent interactions**
- ✦ Khanh Hoa Dam: **software evolution**
- ✦ Simon Duff: **enhancing goal selection**
- ✦ Gaya Jayatilleke: **component-based agents for domain experts**
- ✦ Duc Quang Pham: **logic-based agent interactions**
- ✦ Toan Phuoc Phung: **learning in BDI agents**
- ✦ David Poutakidis: **debugging**
- ✦ Jennifer Sandercock: **individuality of NPCs using emotions** (with Fabio Zambetta)
- ✦ Lavindra de Silva: **planning in BDI agents**
- ✦ Zhiyong Zhang: **testing agent systems**

Grants

Open AOSE Reasoning

- ✦ Service-oriented negotiation and coordination in multi-agent systems
 - ❖ ARC Discovery 2006-2009
- ✦ Acts of electronic negotiation: Overcoming communication barriers to transdisciplinary innovation in design
 - ❖ ARC Discovery, 2006-2008; Spatial Information Architecture Laboratory (SIAL)
- ✦ Planning and Learning in BDI Agents
 - ❖ ARC Linkage 2005-2007; AOS
- ✦ Advanced Software Engineering Support for Intelligent Agent Systems
 - ❖ ARC Linkage, 2004-2006; AOS
- ✦ Description, Composition, Discovery and Deployment of Intelligent Agent Services
 - ❖ DEST IAP, 2004-2006; Tourism Victoria, Australian Tourism Data Warehouse, SATINE, openNet, Wei Liu (UWA)

Summary

★ 19 members

- ❖ 4 academic staff
- ❖ 3 post-docs
- ❖ 2 other staff
- ❖ 10 post-grad students

★ Main research themes:

- ❖ Agent Oriented Software Engineering
- ❖ Open Agent Systems
- ❖ Agent Reasoning