



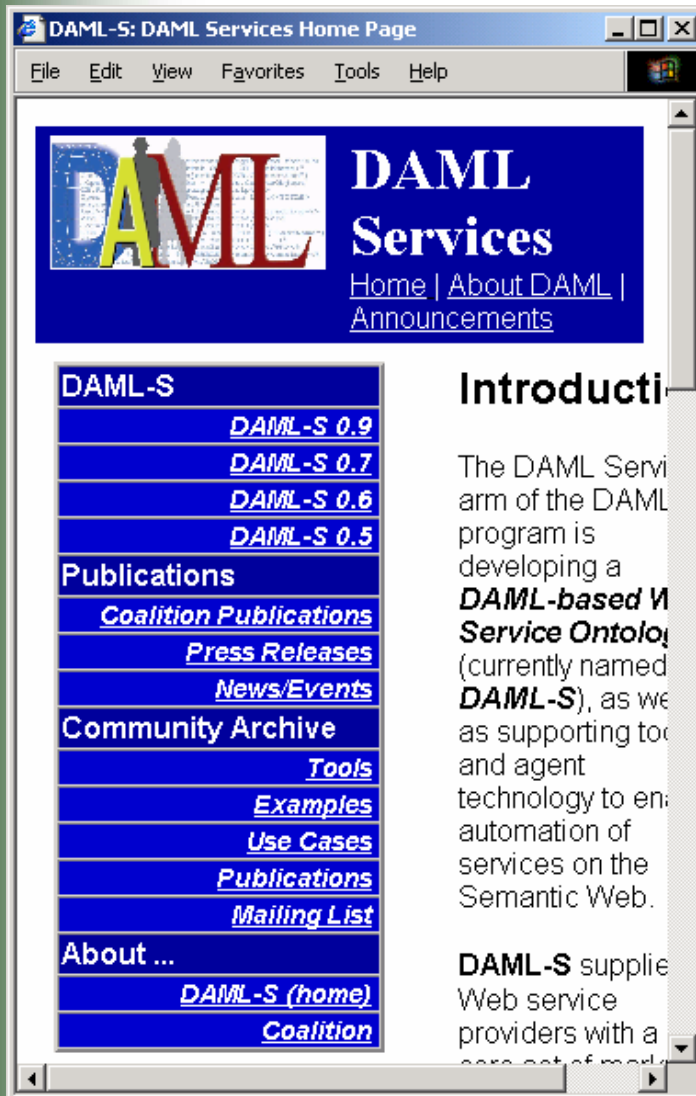
**DARPA DAML PI Meeting**  
**16-18 Oct 2003, Captiva Island, Fl.**

# ***DAML-S / OWL-S: Outreach and Uptake***

## **The OWL-S Coalition**

presented by **Terry Payne**  
IAM – Intelligence, Agents, Multimedia  
University of Southampton

# New DAML-S / OWL-S Web Site



- ✦ Designed to support Semantic Web Services Community
- ✦ Dissemination of:
  - ✦ DAML-S / OWL-S Standards
  - ✦ Community Publications
  - ✦ Press Releases & Events
  - ✦ Tools
  - ✦ Examples
  - ✦ Use Cases
  - ✦ Link to Mailing List ([www-ws@w3.org](http://www-ws@w3.org))

# Searching the Web...?

## 🔍 Searching the Web with **Google**

- ❏ DAML – 148,000 hits
- ❏ OWL – Semantic Web or Feathered Predators???
  - “OWL & Semantic” – 28,100
  - “OWL & Ontology” – 21,500
  
- ❏ DAML-S finds about 7,780 references of DAML-S
- ❏ Semantic Web Services – 617,000 hits!

## 🔍 Searching for Publications with **CiteSeer**

- ❏ Semantic Web is 701
- ❏ 73 documents with DAML-S
  - over 10% just on DAML-S!!!

# DAML-S / OWL-S Repository of Papers

- Many more publications on DAML-S/OWL-S than listed in CiteSeer
  - Evolving Repository maintained at Web Site (with markup!)
  - Many papers from 2003 still to be added...
  - ... due to a dirth of Semantic Web Services Workshops and Conferences in 2002/2003
- Similar effort underway for DAML-S/OWL-S Tools and Examples

**DAML Services - Publication Archive**  
Home | About DAML | Announcements

**DAML-S**  
[OWL-S 1.0 Beta](#)  
[DAML-S 0.9](#)  
[DAML-S 0.7](#)  
[DAML-S 0.6](#)  
[DAML-S 0.5](#)

**Publications**  
[Coalition Publications](#)  
[Press Releases](#)  
[News/Events](#)

**Community Archive**  
[Tools](#)  
[Examples](#)  
[Use Cases](#)  
[Publications](#)  
[Mailing List](#)

**About ...**  
[DAML-S \(home\)](#)  
[Coalition](#)

### Introduction

This site contains an archive of papers and other resources that discuss [DAML-S](#) and related work. The archive is a continually evolving resource, and as such does not contain all the available resources. If a resource/paper/archive is missing, then let me know by emailing [trp@ecs.soton.ac.uk](mailto:trp@ecs.soton.ac.uk), and I'll update the list.

**This is by no means complete, and represents only a sample of DAML-S relevant papers found to date! If you want your paper added, then let me know!**

### DAML-S Coalition Papers

DAML-S related papers published by the DAML-S coalition members can be found in the [DAML-S Coalition Publications](#) page.

### DAML-S Publication Resource Archive

[1998](#) | [1999](#) | [2001](#) | [2002](#) | [2003](#)

**2003**

Jun-ichi Akahani, Kaoru Hiramatsu, and Kiyoshi Kogure. **Coordinating heterogeneous information services based on approximate ontology translation.** In B. Burg, J. Dale, T. Finin, H. Nakashima, I. Padoham, C. Sierra, and S. Willmott, editors. *Agencies: Challenges in Open Agent Environments*

# Tutorials on OWL-S

- ⊕ 7+ tutorials on-line, or presented at Conferences
- ⊕ Summer School classes on Semantic Web Services
  - ⊕ Semantic Web Services
    - The First European Summer School on Ontological Engineering and the Semantic Web (SSSW-2003)
  - ⊕ OWL-S for Agents (*proposed*)
    - EASSS - European Agent Systems Summer School
- ⊕ Invited Talks, Seminars etc presented by DAML Services Coalition
  - ⊕ W3C, MIT, ES2002, AAMAS01, WSeBT, ODBase, CAISE, AI & Law, IAT'01 etc.

# Numerous Workshops & Conferences

- ❁ To Date, at least 11 events on DAML-S and/or Semantic Web Services in 2002/2003
  - ❁ Mainly Workshops at larger Conferences, or specific tracks within Conferences
  - ❁ Typically 1 Day events
  - ❁ Disperse – no major event for Semantic Web Services... until 2004!
  
- ❁ AAI Spring Symposium on Semantic Web Services
  - ❁ 3 Day focused event - 22-24<sup>th</sup> March 2004 (Stanford)
  - ❁ 45 Papers Submitted – expected 36-40% Acceptance Rate
  - ❁ Selected Papers to appear in *July/August 2004 issue of IEEE Intelligent Systems*

# Book Plans – “Semantic Web Services”

Eds. Terry Payne, David Martin , Sheila McIlraith & Katia Sycara

**Forward:** *J. Hendler (U. Maryland) - tbc*

**Preface:** *Terry Payne (U. Southampton)*

## Part I - Services and the Semantic Web

### **1. Semantic Web Services**

*Terry Payne (U. Southampton) David Martin (SRI International) Shelia McIlraith (Stanford University)*

### **2. OWL Tutorial**

*Authors To Be Confirmed.*

## Part II - Ontologies for Semantic Web Services

### **3. Ontologies for Service Description**

*DAML-S Coalition (Anupriya Ankolenkar, Mark Burstein, Jerry R. Hobbs, Ora Lassila, David L. Martin, Drew McDermott, Sheila A. McIlraith, Srin Narayanan, Massimo Paolucci, Bijan Parsia, Terry R. Payne and Katia Sycara)*

### **4. Enacting Web Services**

*David Martin (SRI International) Massimo Paolucci (Carnegie Mellon University) Katia Sycara (Carnegie Mellon University)*

### **5. Discovering Services - Semantic Service Descriptions**

*Katia Sycara (Carnegie Mellon University) Terry Payne (U. Southampton) Massimo Paolucci (Carnegie Mellon University)*

### **6. Service Composition and Translation**

*Shelia McIlraith (Stanford University) Mark Burstein (BBN) Drew McDermott (Yale U.)*

## Part III - Extending Semantic Web Services

### **7. DAML-S Space, Time and Matter**

*Jerry Hobbs (ISI)*

### **8. Semantic Rules**

*Steve Ross-Talbot (Enigmatic Co)*

### **9. Semantic Gadgets: DAML-S for Physical Devices**

*Ora Lassila (Nokia) Mark Adler (Nokia) Dana Pavel (Nokia)*

### **10. Security for Semantic Web Services**

*Grit Denker (SRI International) Lalana Kagal (UMBC) Tim Finin (UMBC) Katia Sycara (Carnegie Mellon University) Massimo Paolucci (Carnegie Mellon University)*

## Part IV - Using Semantic Web Services

### **11. Tools for Constructing Services**

*Bijan Parsia (U. Maryland), Jim Hendler (U. Maryland) Sheila McIlraith (Stanford University) Katia Sycara (Carnegie Mellon University) Massimo Paolucci (Carnegie Mellon University)*

### **12. eScience and Semantic Grid Services**

*Carole Gobel et al (Manchester U.) Luc Moreau (Southampton U.) Terry Payne (Southampton U.)*

### **13. Architectures for Semantic Web Service**

*Dieter Fensel (Leopold Franzens Universität Innsbruck) Christoph Bussler (Oracle)*

### **14. Agents and Applications**

*To Be Confirmed*

# Other Programs using DAML Services

- ✦ AgentLink III (EU FP6 Coordinated Action)
  - ✦ <http://www.agentlink.org/> – starts Jan'04
  - ✦ Collaboration closely with FP6 Knowledge Management NOEs
    - Knowledge Web, Reverse, Muscle, Aim@Shape, KB2.0
- ✦ Ontoweb & KnoweldgeWeb (EU FP5/6 Networks of Excellence)
  - ✦ <http://www.ontoweb.org/>
  - ✦ Several projects have semantic services bias, inc WSMF & IRS2
- ✦ Semantic Grid Research Group
  - ✦ <http://www.semanticgrid.org/GGF/>
  - ✦ Part of the Grid Global Forum
- ✦ Agentcities Worldwide Agent Technology Competition
  - ✦ <http://www.agentcities.org/EUNET/Competition/>
  - ✦ ID3 in Barcelona (Feb 2003) featured finals of Agent Technology Competition.
- ✦ Advanced Knowledge Technologies (AKT)
  - ✦ <http://www.aktors.org/>
  - ✦ Over 46 tools available for Semantic Web Research
  - ✦ Ongoing effort to convert into OWL-S Semantic Web Services...

