



## **Curriculum Vitae**

**PD. Dr. Matthias Klusch**

# Content

<b>1. PERSONAL DATA.....</b>	<b>4</b>
<b>2. EDUCATION.....</b>	<b>5</b>
<b>3. ACADEMIC AND PROFESSIONAL CAREER.....</b>	<b>6</b>
<b>4. RESEARCH VISITS.....</b>	<b>8</b>
<b>5. RESEARCH COORDINATION.....</b>	<b>9</b>
<b>6. RESEARCH FUND RAISING.....</b>	<b>10</b>
<b>7. EDITORIAL BOARD MEMBERSHIPS.....</b>	<b>16</b>
<b>8. PROJECT REVIEWING.....</b>	<b>17</b>
<b>9. ORGANISATION OF CONFERENCES.....</b>	<b>18</b>
9.1 CONFERENCE SERIES.....	18
9.2 CONFERENCES AND WORKSHOPS.....	18
<b>10. PROGRAM COMMITTEE MEMBERSHIPS.....</b>	<b>21</b>
10.1 CONFERENCES.....	21
10.2 WORKSHOPS AND SYMPOSIA.....	25
<b>11. PUBLICATIONS.....</b>	<b>29</b>
11.1 BOOKS.....	29
11.2 SPECIAL ISSUES OF JOURNALS.....	32
11.3 JOURNAL PAPERS.....	32
11.4 BOOK CHAPTERS.....	34
11.5 CONFERENCE PAPERS.....	36
11.6 WORKSHOP AND SYMPOSIUM PAPERS.....	43
11.7 TECHNICAL REPORTS.....	47
<b>12. SCIENTIFIC TALKS.....</b>	<b>48</b>
12.1 INVITED TALKS.....	48
12.2 CONFERENCE TALKS.....	50

<b>13. TEACHING EXPERIENCE.....</b>	<b>54</b>
13.1 COURSES.....	54
13.2 LECTURES.....	55
13.3 TUTORIALS.....	56
13.4 SEMINARS.....	57
<b>14. SCIENTIFIC ADVISORY OF STUDENTS.....</b>	<b>58</b>
14.1 DOCTORAL STUDENTS.....	58
14.2 DIPLOMA, MASTER, AND BACHELOR STUDENTS.....	59
<b>15. LIST OF PERSONAL REFEREES.....</b>	<b>63</b>

Last update of this document: February 22, 2012.

## 1. Personal Data

Name, Title: Matthias Klusch, PD. Dr.

Address (office): German Research Center for Artificial Intelligence (DFKI) GmbH  
Uni Campus, Geb. D3.2, Stuhlsatzenhausweg 3  
D-66123 Saarbrücken  
Tel: +49-681-85775-5297; Fax: +49-681-85775-2235  
E-Mail: [klusch@dfki.de](mailto:klusch@dfki.de)  
Web: <http://www.dfki.de/~klusch/>

Swinburne University of Technology  
Faculty of Information and Communication Technologies  
John Street, Hawthorne, Melbourne, VIC 3122, Australia  
Email: [mklusch@swin.edu.au](mailto:mklusch@swin.edu.au)  
Web: [www.ict.swin.edu.au/ictstaff/mklusch](http://www.ict.swin.edu.au/ictstaff/mklusch)

Address (private): Max-Braun-Str. 34  
66121 Saarbrücken, Germany  
Phone & Fax: +49-681-8317676 (AB)

Born: 19.4.1965 in Berlin-Charlottenburg, Germany

Nationality: German

Occupations: Senior Researcher  
German Research Center for Artificial Intelligence (DFKI) GmbH  
in Saarbrücken, Germany.

Private Lecturer (PD)  
Saarland University, Computer Science Department  
in Saarbrücken, Germany.

Adjunct Professor (Adj. Prof.)  
Swinburne University of Technology, ICT Faculty  
in Melbourne, Australia.

## 2. Education

- July 2009                      Habilitation in Computer Science (Privatdozent, PD.) from the University of the Saarland, Saarbrücken, Germany.  
Thesis: *On Agent-Based Semantic Service Coordination*.  
Commission: Profs. M. Backes, W. Decker, M. Fuchs, M. Hein, J. Siekmann (Mentor), P. Slusallek, H. Uszkoreit, W. Wahlster, G. Weikum (Chair)
- April 1997                      Ph.D. (Doctorate, Dr. rer. nat.) in Computer Science from the Christian-Albrechts-University of Kiel, Kiel, Germany.  
Degree: Magna cum laude.  
Thesis: *Cooperative Information Agents in the Internet*.
- 1992                              M.Sc. (Diploma, Dipl.-Inform.) in Computer Science from the Christian-Albrechts-University of Kiel, Kiel, Germany.  
Score: 1.0  
Thesis: *Development of a Hybrid Neural System for the Classification of Stars*.
- 1987                              B.Sc. in Computer Science from the Christian-Albrechts-University of Kiel, Kiel, Germany.
- 1985 – 1992                      Studies of Computer Science and Mathematics at the Institute for Computer Science and Applied Mathematics of the Christian-Albrechts-University of Kiel, Kiel, Germany.
- 1984 - 1985                      German Military Service (W15)  
1984                              A-Level General Certificate of Education (Abitur) from the Secondary School "Herder Gymnasium" in Rendsburg, Germany.
- 1971 – 1984                      Visits to schools in Berlin, Lübeck and Rendsburg, Germany.

### 3. Academic and Professional Career

- 10/1992 – 4/1997     **Teaching and Research Assistant**  
Christian-Albrechts-University of Kiel, Institute for Informatics and Applied Mathematics, Department of Systems for Information Management. Kiel, Germany
- 4/1997 – 4/1999     **Assistant Professor (Wissenschaftlicher Assistent, C1)**  
Chemnitz University of Technology, Department of Systems for Data Management. Chemnitz, Germany
- 1/1998 – 12/1998    **Postdoctoral Research Fellow**  
Carnegie Mellon University, School of Computer Science, Robotics Institute. Pittsburgh, USA
- Since 4/1999         **Senior Researcher**  
German Research Center for Artificial Intelligence (DFKI). Saarbrücken, Germany
- Head of Research Team Intelligent Information Systems**
- Co-/Deputy Head of Research Group Multiagent Systems**
- 3/2000 – 3/2002     **Assistant Professor (Universiteits Docent, TUD)**  
Vrije Universiteit Amsterdam, Faculty of Sciences, Department of Artificial Intelligence. Amsterdam, The Netherlands
- Since 7/2003         **DFKI Research Fellow**
- Since 4/2008         **Adjunct Professor**  
Swinburne University of Technology, Faculty of Information and Communication Technologies, Department of Computer Science and Software Engineering. Melbourne, Australia
- Since 7/2009         **Private Lecturer (Privatdozent, PD)**  
Saarland University, Faculty for Informatics. Saarbrücken, Germany.

### **Scientific awards:**

- |      |   |
|------|---|
| 2011 | Best Paper Award (with Jan Richter and Ryszard Kowalczyk) of the 9 <sup>th</sup> German Conference on Multiagent System Technologies                          |
| 2008 | Nominee for the ACM SIGART 2008 Award for Excellence in Autonomous Agents Research  |
| 2006 | Best Paper Award Finalist (with Katia Sycara and Benedikt Fries) of the 5 <sup>th</sup> International Conference on Autonomous Agents and Multi-Agent Systems |
| 2005 | Best Paper Award (with Bastian Blankenburg) of the 3 <sup>rd</sup> German Conference on Multiagent System Technologies  |

### **Contributions to academic self-governance of universities:**

I am member of the international scientific advisory board of the Centre for Intelligent Information Technologies (CETINIA) at Universidad Rey Juan Carlos in Madrid, Spain; since March 2010.

I have been member of several PhD committees in computer science at the Universität des Saarlandes (Germany), the University of Girona, the Universitat Politecnica de Catalunya (Spain) and the Honkong Baptist University (China).

### **Member of professional associations:**

1. Gesellschaft für Informatik (GI) e.V.
  - Fachgruppe Künstliche Intelligenz
  - Fachgruppe Datenbanken
2. IEEE Computer Society
3. ACM Association for Computing Machinery (2006 – 2010)

#### 4. Research Visits

3/2011 – 4/2011  
4/2009 – 5/2009

**Swinburne University of Technology**, Melbourne, Australia.

Invited 2-months visits in my position as adjunct professor at the Swinburne Faculty of Information and Communication Technologies, Centre for Complex Software Systems and Services (CS3). Joint work with professor Ryszard Kowalczyk and his group on Intelligent Agent Technologies. Research on topics of agent-based high-performance semantic service selection and automated negotiation mechanisms with applications to smart grid services infrastructures and the 3D-Internet. PhD student supervision, Lectures on relevant topics.

3/2000 - 3/2002

**Vrije Universiteit Amsterdam**, Amsterdam, The Netherlands.

2-years contracted employment in the position of a part-time assistant professor (TUD) of the faculty of sciences. Lecturing and joint research in the domain of cooperative information agents and systems at the department of Artificial Intelligence headed by professor Jan Treur.

1/1998 - 12/1998

**Carnegie Mellon University**, Pittsburgh, USA.

1-year contracted employment in the position of a visiting research scientist / postdoctoral research fellow of the Robotics Institute (CMU staff member) for working in the Intelligent Software Agents Group headed by professor Katia Sycara. Employment grant of CMU exchange program P-1-1292. Joint research on intelligent agent-based service mediation in the Internet.

## 5. Research Coordination

Coordination of research groups:

- Since 1999    Research Team Intelligent Information Systems I2S (Head)  
<http://www.dfki.de/~klusch/i2s/>
- Since 2004    Research Group Multiagent Systems (Deputy Head / Co-Head)
- 1998 - 2003    European Special Interest Group on Intelligent Information Agents as part  
of the European Network of Excellence for Agent-Based Computing  
AgentLink (Coordinator)  
<http://www.agentlink.org/activities/sigs/sig3.html>
- 2001 - 2003    Working Groups of the European Coordinated Action Agentcities.NET on  
various topics of agent technology (Coordinator)

Coordination of research projects at DFKI:

I was involved in the scientific coordination of following funded national, regional and industry research projects at DFKI on different levels (project management, scientific coordination, work package or task leader, see section 6):

1. SocialSensor (2011 – 2014, EC FP7 IP, Semantic Social Web)
2. Collaborate3D (2011-2014, BMB+F, Collaborative 3D simulation of realities)
3. EMERGENT Software Cluster (BMB+F, 2010 – 2015), Task Q1.G2.3 Lead
4. ISReal (2009-2012, BMB+F, Intelligent 3D simulation of realities)
5. MODEST (2008, BMB+F, Model-driven agents for semantic Web services)
6. AT (2008–2012, EC FP7 COST, Agreement Technologies)
7. SCALLOPS (2004–2007, BMB+F, Secure agent-based pervasive computing)
8. SEMAS (2001–2003, BMB+F, Secure Multi-Agent Systems)
9. AGRICOLA, AGRICOLA-2 (2001 – 2003; 2006, Saarland government)
10. CASA (2000–2002, Saarland government)
11. CASCOM (2003–2007, EC FP6 STREP, Mobile Semantic Web Services)
12. Agentcities.RTD (2001–2003, European Commission, FP5, Network of Agent-Based Services Across Europe and the World)
13. AgentCities.NET (2001–2003, EC FP5, CA)
14. AgentLink I – III (1998–2003; EC, CA Agent-Based Computing)
15. AITelcom: A Study on AI Technologies for Telecommunication Applications (2000–2001, Alcatel AG, Germany)
16. SAP-AEP: Agents for E-Business and Dynamic Pricing (1999–2000, SAP Retail Solutions, Germany)

## 6. Research Fund Raising

I have been involved in the acquisition of research grants for projects, PhD student scholarships, and sponsorships of scientific events funded by different sources as follows.

### European Research Projects:

1. **SocialSensor** – Sensing User-Generated Input for Improved Media Discovery and Experience.

Funding: 6.1 MEUR

Source: EC IST FP7 (IP)

DFKI share: 634 KEUR

Duration: 10/2011 – 10/2014

Coordination: CERTH (Greece)

Partners: 11 including Yahoo!, DW, Alcatel-Lucent Bell, IBM

DFKI personnel: Klusch (PMB Member, WP3 Leader); Kapahnke; Hoffmann; Keller

Objectives: Development and new framework for enabling real-time multimedia indexing and search in the Social Web. Mining and aggregating user inputs and content over multiple social networking sites. Social Indexing will incorporate information about the structure and activity of the users' social network directly into the multimedia analysis and search process. Enhancement of multimedia consumption experience by developing novel user-centric media visualization and browsing paradigms: Analysis of dynamic and massive user contributions in order to extract unbiased trending topics and events, and the usage of social connections for improved recommendations.

2. **AT - Agreement Technologies**

Funding: 0.5 MEUR

Source: EC COST Action IC0801

DFKI share: N/A (PMB travel cost reimbursement by EC directly)

Duration: 8/2008 – 6/2012

Coordination: Universidad Rey Juan Carlos (Spain); Partners: Open scheme.

DFKI personnel: Klusch (PMB Member); Keller

Objectives: [http://www.cost.esf.org/index.php?id=110&action\\_number=IC0801](http://www.cost.esf.org/index.php?id=110&action_number=IC0801)

3. **CASCOM** - Context-Aware Business Application Service Coordination in Mobile Computing Environments

Funding: 2.7 MEUR

Source: EC IST FP6 (STREP)

DFKI share: 627 KEUR

Duration: 9/2004 – 9/2007, cost neutral prolongation to 12/2007.

Coordination: DFKI

DFKI personnel: Klusch (Scientific Co-ordinator, PMB Member); Gerber; Keller

Partners: DFKI, TeliaSonera, ADETTI, EMA Group, URJC, UBasel, EPFL, FrameTech

Objectives: To implement, validate, and trial a value-added supportive infrastructure for Semantic Web based business application services across mobile and fixed networks. <http://www.ist-cascom.org>

4. **Agentcities.RTD**

Funding: 2.47 MEUR

Source: EC IST FP5 (STREP)

DFKI share: 250 KEUR

Duration: 6/2001 – 6/2003

Coordination: Motorola France, Partners: 15

DFKI personnel: Klusch (PMB Member); Drugan

Objectives: To create an on-line, distributed test bed to explore and validate the potential of agent technology for future dynamic service environments.

<http://www.agentcities.org/EURTD/>

5. **AgentCities.NET**

Funding: 868 KEUR

Source: EC IST FP5 Network of Excellence; Open Partnership Scheme

DFKI share: 166 KEUR

Duration: 11/2001 – 10/2003

Coordination: DFKI

Partners: 4 (Motorola, British Telecom, EPFL, UPC) for network management

DFKI personnel: Klusch (WP6 Leader; PMB Member); Girenko (co-ordinator); Keller

Objectives: To create an open dynamic service environment based on Agent technology and make it accessible to potential users. Take-up action; European Network of Excellence. <http://www.agentcities.org/EUNET/>

## National Funded Research Projects:

1. **Collaborate3D** – Scalable Intelligent Support and Reliability for Collaboration in the Future 3D Internet.

Funding: 1.45 MEUR

Source: BMB+F [DFKI Korridor]

Duration: 10/2011 – 10/2014

DFKI personnel: Fischer, Klusch, Stephan, Sons

Objective: Research and development of a coherent framework for scalable intelligent support of and reliability for collaboration in the future 3D Internet. Integrated proof-of concept demonstrations focus on selected scenarios of collaborative 3D engineering in industry and science such as collaborative virtual 3D product and bio-molecular design.

2. **Spitzencluster EMERGENT** – Emergent Software for Digital Enterprises in the Future Internet

Funding: 12.3 MEUR

DFKI-FGMAS share: 240 KEUR (aus DFKI share 1.7 MEUR)

Source: BMB+F

Duration: 7/2010 – 2015

DFKI-FGMAS personnel: Klusch (Task AP2.3 Leader); 1 researcher

Objective: Adaptive model-driven business service coordination by intelligent agents

<http://www.software-cluster.org/>

3. **ISReal** – Intelligently Simulated Reality

Funding: 1.45 MEUR

Source: BMB+F [DFKI Korridor]

Duration: 1/2009 – 12/2011

Cooperation Partners: EADS, TU Swinburne, et al.

DFKI personnel: Klusch, Fischer, Hoffman, Demme, Stephan (TC); 4 researchers, additional MSc students

Objective: [www.dfki.de/~klusch/isreal](http://www.dfki.de/~klusch/isreal)

4. **MODEST** - Model-Driven Agents for Semantic Web Services

Funding: 245 KEUR

Source: BMB+F [DFKI Korridor]

Duration: 1/2008 – 12/2008

Cooperation Partners: Saarstahl AG, Swinburne U, URJC

DFKI personnel: Klusch, Fischer (PM); 1 PhD student, additional MSc students

Objective: [www.dfki.de/~klusch/modest](http://www.dfki.de/~klusch/modest)

5. **SCALLOPS** - Secure Agent Based Pervasive Computing

Funding: 1.45 MEUR

Source: BMB+F [DFKI Korridor]

Duration: 3/2004 – 12/2006; Prolongations: 1/2007 – 6/2007, 7/2007 – 12/2007

DFKI personnel: Klusch, Hutter (PM); 2 PhD students; additional MSc students

Objectives: <http://www.dfki.de/scallops> To develop a coherent, methodological framework for the design and implementation of secure agent-based pervasive computing applications. Basic research is on innovative means for flexible agent-coordinated semantic Web service discovery and composition, and effective data and service privacy enforcement in open, large scale pervasive computing environments.

6. **SEMAS** - Secure Multi-Agent Systems

Funding: 700 KEUR

Source: BMB+F [DFKI Korridor]

Duration: 1/2001 – 12/2003

DFKI personnel: Fischer, Klusch, Hutter (PM); 2 PhD students

Objectives: To provide a specific methodology for the design and implementation of secure mobile multi-agent systems particularly in the domain of virtual marketplaces.

Regional Funded Projects

1. **AGRICOLA-2**

Funding (DFKI share): 80 KEUR

Source: Saarland Ministry for Environment (MfU)

Duration: 1/2006 – 7/2007

Coordination: DFKI

Partners: Maschinenring des Saarlandes e.V.

DFKI Personnel: Klusch (PM), 1 Software Engineer, Advisor (MfU)

Objective: Realisation and limited field test of the prototyped AGRICOLA system.

## 2. **AGRICOLA**

Funding (DFKI share): 245 KEUR

Source: Saarland Ministry for Environment (MfU)

Duration: 1/2002 – 3/2003

Coordination: DFKI

Partners: Maschinenring des Saarlandes e.V.

DFKI Personnel: Klusch (PM), 1 PhD student; additional MSc students

Objective: Development and prototypical implementation of an agent based system AGRICOLA for dynamic resource allocation for cereal harvesting in the Saarland region. This includes the use of mobile computing and communication devices.

## 3. **CASA**

Funding (DFKI share): 245 KEUR

Source: Saarland Ministry of Environment (MfU); Saarland Ministry of Economics.

Duration: 1/2000 – 12/2002

Coordination: DFKI

Partners: TrendPlus AG, Deutsche Telekom AG

DFKI Personnel: Klusch (PM), 1 PhD student, Advisor (MfU); additional MSc students

Objective: Development and prototypical implementation of an agent based system for integrated mobile services for dynamic timber production planning and trading.

**KAMIL** – Associated Project to CASA 1.7.-31.12.1999, DFKI share: 20 KEUR

### **Industrial Projects (Studies, Software Development):**

#### 1. **AITelcom**

AI Technologies for Telecommunication Applications; Study.

Duration: 1.11.- 31.12.2000

Im Auftrag von Alcatel AG Stuttgart, Germany

#### 2. **SAP-AEP**

Agents for E-Business and Dynamic Pricing for SAP/R3; Study and Software.

Duration: 1.10.1999 - 31.12.2000

Im Auftrag von SAP AG / SAP Retail Solutions, Germany

**PhD Scholarships:**

- 2003 – 2007: Ph.D. Scholarship funded by the Brazilian student exchange office CAPES for conducting doctoral studies at the University of the Saarland and DFKI; scholarship holder: Josenildo C. Da Silva; ca. 48 KEUR
- 2004 – 2008: Ph.D. Scholarship funded by the Brazilian student exchange office CAPES for conducting doctoral studies at the University of the Saarland and DFKI; scholarship holder: Helena P. Nunes (2004 – 2005); ca. 48 KEUR

**Sponsorships of scientific events:**

In my role as co-/chair of scientific conferences, workshops, and training events, I have also raised funds from different sources for sponsoring best paper awards, system awards, student travel grants, and others. Selected sponsors from industry were Whitestein Technologies, TeliaSonera A/B, Siemens AG, Nokia, Deutsche Telekom AG, Elsevier Science, IBM Research Israel, Swiss Life AG, AutoDesk Inc., Daimler-Chrysler AG, National e-Science Institute Edinburgh, NASA Goddard Space Flight Center. Selected scientific organisations were IFMAS International Foundation for Multi-Agent Systems, German Computer Society (GI), AEPIA Spanish Association for Artificial Intelligence, AISB (UK), and IEEE computer society standards committee FIPA.

## 7. Editorial Board Memberships

I am editorial board member (associate editor) of the following scientific journals.

1. International Journal of Cooperative Information Systems (**IJCIS**), World Scientific. Seit 2002. <http://www.worldscinet.com/ijcis/ijcis.shtml>
2. International Journal of Web Semantics: Science, Services, and Agents on the Web (**WebSem**), Elsevier Science. Seit 2007. [http://www.elsevier.com/wps/find/journaldescription.cws\\_home/671322/description#description](http://www.elsevier.com/wps/find/journaldescription.cws_home/671322/description#description)
3. International Journal of Semantic Web and Information Systems (**SWIS**), IGI Global. Seit 2007. <http://www.ijswis.org/>
4. International Journal of Web Intelligence and Agent Systems (**WIAS**), IOS Press. Seit 2003. <http://www.iospress.nl/loadtop/load.php?isbn=15701263>
5. International Journal of Applied Decision Sciences (**ADS**), InderScience. Seit 2008. <http://www.inderscience.com/browse/index.php?journalID=283>
6. International Journal of Knowledge and Information Systems (**KAIS**), Springer; 2001 - 2009. <http://www.cs.uvm.edu/~kais/>
7. International Electronic Transactions on Artificial Intelligence (**ETAI**), Area: Semantic Web, 2000 – 2001. <http://www.ida.liu.se/ext/etai/>

## 8. Project Reviewing

I am project reviewer of the following national science research funding agencies:

- Natural Sciences and Engineering Research Council of Canada (**NSERC**), since 2007.
- Chinese Research Grants Council (**RGC**) Hongkong. Since 2004
- Italian Ministry of Education and Research - Italian Ministero dell'Università e della Ricerca (**MIUR**). Since 2004
- Netherlands Organization for Scientific Research (**NWO**). Since 2003
- Switzerland National Science Fund - Schweizerischer Nationalfonds zur Förderung der wissenschaftlichen Forschung (**FNSNF**). Since 2003
- Austrian National Science Fund - Österreichischer Wissenschaftsfond (**FWF**). Since 2002

## 9. Organisation of Conferences

I am involved in the organisation of scientific events and series as follows.

### 9.1 Conference Series

- Co-founder and speaker of the steering committee of the German conference series on Multiagent System Technologies (MATES), since 2003.  
<http://www.dfki.de/~klusch/mates-series/>
- Coordinator of the International Semantic Service Selection Contest (S3), since 2007.  
<http://www.dfki.de/~klusch/s3/>
- Founder and general chair of the international annual workshop series on Cooperative Information Agents (CIA) from 1997 to 2008. This series of 12 workshops has been ranked 55 from 620 conferences in Artificial Intelligence (by [www.cs-conference-ranking.org](http://www.cs-conference-ranking.org), as of July 24, 2008).  
For details of the series: <http://www.dfki.de/~klusch/IWS-CIA-home.html>

### 9.2 Conferences and Workshops

General chair or Co-chair of conferences:

- General Chair of the 5<sup>th</sup> German Conference on Multiagent System Technologies (MATES), 2007
- General Chair of the 3<sup>rd</sup> German Conference on Multiagent System Technologies (MATES), Koblenz, 2005
- General Chair of the International Workshop on Cooperative Information Agents (CIA) from 1997 to 2008 (twelve annual workshops):  
  
1997, Kiel, Germany; 1998, Paris, France (@ Agents' World conference); 1999, Uppsala, Sweden; 2000, Boston, USA (@ ICMAS 2000 conference); 2001, Modena, Italy; 2002, Madrid, Spain; 2003, Helsinki, Finland; 2004, Erfurt, Germany (@ Net.Object Days 2004 multiconference); 2005, Koblenz, Germany (@ MATES / KI 2005 conference); 2006, Edinburgh, UK; 2007, Delft, The Netherlands; 2008, Prague, Czech Republic
- Co-Chair of the 6<sup>th</sup> International Workshop on Service-Oriented Computing: Agents, Semantics, and Engineering (SOCASE) at the AAMAS 2008 Conference, Portugal, 2008.

- Co-Chair of the 1<sup>st</sup> International Joint Workshop on Service Matchmaking and Resource Retrieval in the Semantic Web (SMR2), 2007
- Co-Chair of the European 3<sup>rd</sup> Agentcities Information Days, Barcelona, Spain, February 6-8, 2003
- Co-Chair of the international AAI Workshop on Coalition Formation in Dynamic Multiagent Environments, July 28 - 29, USA, 2002
- Local Co-Chair of the 2<sup>nd</sup> European Summer School on Agent-Based Systems (EASSS 2000), Saarbrücken, August 14 – 18, 2000
- Co-Chair of the International Workshop on Knowledge Representation Meets Databases (KRDB) at the ECAI 2000 Conference in Berlin, August 2000
- Co-Chair of the 1<sup>st</sup> German Joint Workshop on DAI, Databases and Information Retrieval (VDI), Chemnitz, April 1998

Program Co-/chair of conferences:

- Program Vice-Chair of the 11<sup>th</sup> IEEE/ACM International Conference on Intelligent Agent Technology (IAT), Lyon, France, 2011
- Program Committee Vice Chair of the 6<sup>th</sup> European Semantic Web Conference (ESWC), Heraklion, Greece, 2009
- Program Co-Chair of the IEEE International Conference on Web Intelligence (WI), Sydney, Australia, 2008
- Program Vice Chair of the 6<sup>th</sup> International Semantic Web Conference (ISWC), Busan, Korea, 2007
- Program Co-Chair of the IEEE International Conference on Intelligent Agent Technology (IAT), Silicon Valley, USA, 2007
- Program Co-Chair of the IEEE International Conference on Intelligent Agent Technology (IAT), Hong Kong, China, 2006
- Vice Program Committee Chair of the 4th IEEE/ACM Conference on Web Intelligence (WI), Compiègne, France, 2005

- Vice Program Committee Chair of the 4<sup>th</sup> International IEEE Conference on Intelligent Agent Technology (IAT 2004), October, China, 2004
- Program Co-Chair of the 3<sup>rd</sup> International IEEE Conference on Intelligent Agent Technology (IAT 2003), October, Canada, 2003
- Program Co-Chair of the 1<sup>st</sup> German Conference on Multiagent System Technologies (MATES), Erfurt, Germany, September 22 - 25, 2003

Track chair of conferences:

- Track Chair of 9<sup>th</sup> Extended Semantic Web Conference (ESWC), Heraklion, Greece, 2012

Other committed roles of the organisation of conferences:

- Publicity Chair of the 4<sup>th</sup> International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS 2005), 2005
- Sponsorship Co-Chair of the 15<sup>th</sup> International Conference on Principles and Practice of Multi-Agent Systems (PRIMA), 2012

## 10. Program Committee Memberships

My memberships of program committees of conferences and workshops are listed in inverted chronological order and sorted by relevant major research areas.

### 10.1 Conferences

#### Semantic Technologies

1. 11<sup>th</sup> International Conference on Ontologies, Databases and Applications of Semantics (**ODBASE**), Rome, Italy, 2012
2. 8<sup>th</sup> Extended Semantic Web Conference (**ESWC**), Heraklion, Greece, 2012
3. 10<sup>th</sup> International Semantic Web Conference (**ISWC**), Bonn, Germany, 2011
4. 10<sup>th</sup> Intl. Conference on Ontologies, DataBases, and Applications of Semantics (**ODBASE**), Crete, Greece, 2011.
5. 4<sup>th</sup> Asian Semantic Web Conference (**ASWC**), Shanghai, China, 2009
6. 8<sup>th</sup> International Semantic Web Conference (**ISWC**), Washington DC, USA, 2009
7. 1<sup>st</sup> International Conference on Semantic Systems (**i-Semantics**), Graz, Austria, 2009
8. 7<sup>th</sup> International Semantic Web Conference (**ISWC**), Karlsruhe, Germany, 2008
9. 3<sup>rd</sup> Asian Semantic Web Conference (**ASWC**), Thailand, 2008.
10. 5<sup>th</sup> European Conference on Semantic Web Services (**ESWC**), Tenerife, Spain, 2008.
11. 4<sup>th</sup> European Conference on Semantic Web Services (**ESWC**), Innsbruck, Austria, 2007
12. 5<sup>th</sup> International Semantic Web Conference (**ISWC**), Athens, USA, 2006.
13. 3<sup>rd</sup> European Semantic Web Conference (**ESWC**), Budva, Montenegro, 2006.
14. 4<sup>th</sup> International. Semantic Web Conference (**ISWC**), Galway, Ireland, 2005.
15. 1<sup>st</sup> International IFIP Conference on Industrial Applications of the Semantic Web (**IASW**), Jyväskylä, Finland, August 2005.
16. 3<sup>rd</sup> International Semantic Web Conference (**ISWC**), Hiroshima, Japan, November 2004
17. 3<sup>rd</sup> Intl. Conference on Ontologies, DataBases, and Applications of Semantics (**ODBASE**), Cyprus, 2004.
18. 2<sup>nd</sup> Intl. Semantic Web Conference (**ISWC**), Sundial Resort, Sanibel Island, Florida, USA, 2003

#### Agent-Based Computing

19. 12<sup>th</sup> IEEE/ACM International Conference on Intelligent Agent Technology (**IAT**), Macau, China, 2012
20. 11<sup>th</sup> International Conference on Autonomous Agents and Multiagent Systems (**AAMAS**), Valencia, Spain, 2012

21. 10<sup>th</sup> International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), Salamanca, Spain, 2012
22. 4<sup>th</sup> International Conference on Agents and Artificial Intelligence (**ICAART**), Vilamoura, Portugal, 2012
23. 9<sup>th</sup> German Conference on Multiagent System Technologies (**MATES**), Berlin, Germany, September, 2011
24. 9<sup>th</sup> International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), Salamanca, Spain, 2011
25. 10<sup>th</sup> International Conference on Autonomous Agents and Multiagent Systems (**AAMAS**), Taipei, Taiwan, 2010
26. 3<sup>rd</sup> International Conference on Agents and Artificial Intelligence (**ICAART**), Rome, Italy, 2011
27. 2<sup>nd</sup> International Conference on Agents and Artificial Intelligence (**ICAART**), Valencia, Spain, 2010
28. 9<sup>th</sup> International Conference on Autonomous Agents and Multiagent Systems (**AAMAS**), Toronto, Canada, 2010
29. 8<sup>th</sup> International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), Salamanca, Spain, 2010
30. 7<sup>th</sup> International Conference on Practical Applications of Agents and Multi-Agent Systems (**PAAMS**), Salamanca, Spain, 2009
31. 8<sup>th</sup> International Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS**), Budapest, Hungary, 2009
32. 7<sup>th</sup> International Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS**), Estoril, Portugal, 2008
33. 8<sup>th</sup> International Conference on Self-Organization and Autonomic Systems in Computing and Communications (**SOAS**), Leipzig, Germany, 2007.
34. 6<sup>th</sup> International Joint Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS**), Hawaii, USA, 2007. *Senior Program Committee Member*.
35. 7<sup>th</sup> Intl Conference on Self-Organization and Autonomic Systems in Computing and Communications (**SOAS**), Erfurt, Germany, 2006.
36. 5<sup>th</sup> Intl. Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS**), Hakodate, Japan, May 2006.
37. 4<sup>th</sup> German Conference on Multiagent System Technologies (**MATES**), Erfurt, Germany, September, 2006
38. 1<sup>st</sup> Intl Conference on Self-Organization and Adaptation of Multi-agent and Grid Systems (**SOAS**), Glasgow, UK, December 2005
39. 4<sup>th</sup> Intl. Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS**), Utrecht, The Netherlands, July 2005
40. 4<sup>th</sup> Intl. Central and Eastern European Conference on Multi-Agent Systems (**CEEMAS**), Budapest, Hungary, September 2005
41. 2<sup>nd</sup> Intl. Conference on Industrial applications of Holonic and Multi-Agent Systems (**HoloMAS**), Copenhagen, Denmark, 2005
42. 3<sup>rd</sup> Intl. Conference on Autonomous Agents and Multiagent Systems (**AAMAS**), New York, USA, 2004.

43. 3<sup>rd</sup> Intl. Central and Eastern European Conference on Multi-Agent Systems (**CEEMAS**), Prague, Czech Republic, 2003
44. 1<sup>st</sup> Intl. Conference on Industrial Applications of Holonic and Multi-agent Systems (**HoloMAS**), Prague, Czech Republic, 2003
45. 1<sup>st</sup> Intl. Joint Conference on Autonomous Agents and Multi-Agent Systems (**AAMAS**), Bologna, Italy, 2002
46. 5<sup>th</sup> Intl. Conference on Autonomous Agents (**Agents**), Montreal, Canada, 2001; *Senior Program Committee Member*.
47. 2<sup>nd</sup> Asia-Pacific Conference on Intelligent Agent Technology (**IAT**), Japan, 2001.
48. 6<sup>th</sup> Intl. Conference on Practical Application of Intelligent Agents and Multi-Agent Technology (**PAAM**), Manchester, UK, 2001.
49. 4<sup>th</sup> Intl. Conference on Multiagent Systems (**ICMAS**), Boston, USA, 2000.
50. 3<sup>rd</sup> Intl. Conference on Autonomous Agents (**Agents**), Seattle, USA, 1999.
51. 4<sup>th</sup> Intl. Conference on Practical Application of Intelligent Agents and Multi-Agent Technology (**PAAM**), London, UK, 1999
52. 2<sup>nd</sup> Intl. Conference on Autonomous Agents (**Agents**), Minneapolis, USA, 1998.

### **Artificial Intelligence**

53. International Joint Conference on Artificial Intelligence (**IJCAI**), *Senior PC Member*, Barcelona, Spain, 2011
54. 19<sup>th</sup> European Conference on Artificial Intelligence (**ECAI**), Lisbon, Portugal, 2010
55. 6<sup>th</sup> International Conference on Prestigious Applications of Intelligent Systems (**PAIS**), Lisbon, Portugal, 2010
56. 26<sup>th</sup> International IASTED Conference on Artificial Intelligence and Applications (**AIA**), Innsbruck, Austria, 2008
57. 30<sup>th</sup> German Conference on Artificial Intelligence (**KI**), 10 – 13 September, Osnabrück, Germany, 2007
58. 25<sup>th</sup> International IASTED Conference on Artificial Intelligence and Applications (**AIA**), Innsbruck, Austria, 2007
59. 24<sup>th</sup> International IASTED Conference on Artificial Intelligence and Applications (**AIA**), 13 - 16 February, Innsbruck, Austria, 2006
60. 22<sup>nd</sup> International IASTED Conference on Artificial Intelligence and Applications (**AIA**), 16 - 18 February, Innsbruck, Austria, 2004
61. 3<sup>rd</sup> Intl. Conference on Knowledge Systems for Coalition Operations (**KSCO**), Pensacola, Oct 26-28, 2004, USA, 2004
62. 15<sup>th</sup> European Conference on Artificial Intelligence (**ECAI**), Lyon, France, 2002

### **Information Systems**

63. 8<sup>th</sup> International Conference on Web Information Systems and Technologies (**WebIST**), Porto, Portugal, 2012

64. German Conference „Anwendungskonzepte und Vorgehensweise für dezentrale Informationssysteme“ as part of the German multi-conference on business informatics **MKWI**, Munich, Germany, 2008
65. IEEE International Conference on Adaptive Business Systems (**ICABS**), China, 2007
66. 9<sup>th</sup> Intl. Conference on Database Systems for Advanced Applications (**DASFAA**), Kyoto, Japan, 2003.
67. 3<sup>rd</sup> Intl. Conference on Web Information Systems Engineering (**WISE**), Singapore, 2002
68. 2<sup>nd</sup> Intl. Conference on Web Information Systems Engineering (**WISE**), Kyoto, Japan, 2001
69. Intl. Conference on Advances in Database and Information Systems (**ADBIS**), Vilnius, Lithuania, 2001.
70. 4<sup>th</sup> IFCIS Conference on Cooperative Information Systems (**CoopIS**), Edinburgh, Scotland, 1999.
71. 5<sup>th</sup> Intl. Conference on Information Systems, Analysis and Synthesis (**ISAS**), Orlando, USA, 1999
72. 3<sup>rd</sup> IFCIS Conference on Cooperative Information Systems (**CoopIS**), New York, USA, 1998
73. Intl. Conference ETCE-96 Energy Week, Houston, TX/USA, 1996.

#### **Internet, Web and Services**

74. 1<sup>st</sup> International Conference on Ambient Computing, Applications, Services and Technologies (**AMBIENT**), Barcelona, 2011
75. 25<sup>th</sup> International IEEE Conference on Advanced Information Networking and Applications (**AINA**), Singapore, 2011
76. 23<sup>rd</sup> IEEE International Conference on Advance Information Networking and Application (**AINA**), Bradford, UK, 2009
77. 18<sup>th</sup> International World Wide Web Conference (**WWW**), Madrid, Spain, 2009
78. 10<sup>th</sup> International Conference on Electronic Commerce (**ICEC**), Innsbruck, Austria, 2008
79. 8<sup>th</sup> International ACM Conference on Electronic Commerce (**EC**), San Diego, USA, 2007
80. International IEEE Conference on IP and Web Applications (**ICIW**), Guadeloupe, 2006
81. 3<sup>rd</sup> International Conference on Service-Oriented Computing (**ICSOC**), Amsterdam, The Netherlands, December 2005
82. 12<sup>th</sup> Intl. Conference on the World Wide Web (**WWW**), Budapest, Hungary, May 2003
83. 11<sup>th</sup> Int. Conference on the Worldwide Web (**WWW**), Hawaii, USA, 2002
84. 2<sup>nd</sup> Intl. Conference on Electronic Commerce and Web (**EC&Web**), London, UK, 2000.
85. Intl. Conference on Electronic Commerce & Web (**EC&Web**), Munich, Germany, 2001.
86. 1<sup>st</sup> Intl. Conference on Mobile and Ubiquitous Systems: Networking and Services (**Mobiquitous**), August 22-25, 2004, Boston, Massachusetts, USA

## Others

87. 34<sup>th</sup> Intl. Conference on System Sciences (**HICSS**), Maui, 2001.
88. 4<sup>th</sup> Intl. Conference of Systemics, Cybernetics and Informatics (**SCI**), USA, 2000.

## 10.2 Workshops and Symposia

### Semantic Technologies

89. International Workshop on Evaluation of Semantic Technologies (**IWEST**) @ ISWC, Shanghai, China, 2010
90. 1<sup>st</sup> International Workshop on Linked Web Data Management (**LWDM**) @ 14<sup>th</sup> Extended Database Technology Conference (EDBT), Uppsala, Sweden, 2011
91. 2<sup>nd</sup> AI Mashup Challenge (**AI-mashup**) @ ESWC, Heraklion, Greece, 2010.
92. 3<sup>rd</sup> International Workshops on Service Matchmaking and Resource Retrieval in the Semantic Web (**SMR2**), Washington DC, USA, 2009
93. 2<sup>nd</sup> International Workshops on Service Matchmaking and Resource Retrieval in the Semantic Web (**SMR2**), Karlsruhe, Germany, 2008
94. Intl. Symposium on Rule Interchange and Applications (**RuleML**), Orlando, USA, 2007.
95. 1<sup>st</sup> Intl. IEEE/ACM Workshop on Semantic Matchmaking and Resource Retrieval (**SMR**), at VLDB Conference, Seoul, Korea, September 2006
96. 2<sup>nd</sup> Intl. Workshop on the Use of Semantic Web Technologies for Ubiquitous and Mobile Applications (**SWUMA**), Trento, Italy, 2006
97. 5<sup>th</sup> Intl. DEXA Workshop on Web Semantics (**Webs**), Krakow, Poland, 2006.
98. 4<sup>th</sup> Intl. Workshop on Web Semantics (**Webs**) at 16th Intl. Conference on Database and Expert Systems (DEXA), Copenhagen, Denmark, August 2005.
99. AAAI Spring Symposium on Semantic Web Services, Stanford, USA, March 2004.
100. 1<sup>st</sup> Intl. Workshop on Semantic Web Technology for Mobile and Ubiquitous Applications @ ISWC, Hiroshima, Japan, 2004.
101. Intl. Workshop „XML-Technologien für das Semantic Web“ (**XSW**), Berlin, Germany, October 2003

### Agent-Based Computing

102. 1<sup>st</sup> International Workshop on Smart Energy Networks & Multi Agent Systems (**SEN-MAS**), Wroclaw, Poland, 2012.
103. 4<sup>th</sup> International Workshop on Agents and Data Mining Interaction (**ADMI**), Toronto, Canada, 2010
104. 3<sup>rd</sup> International Workshop on Agents and Data Mining Interaction (**ADMI**), Budapest, Hungary, 2009

105. 10<sup>th</sup> International Workshop on Engineering Societies in the Agents' World (**ESAW**), Utrecht, The Netherlands, 2009
106. 2<sup>nd</sup> International Workshop on Autonomous Intelligent Systems: Agents and Data Mining (**AIS-ADM**), St Petersburg, Russia, 2007
107. 4<sup>th</sup> European Workshop on Multiagent Systems (**EUMAS**), Lisbon, Portugal, 2006
108. 1<sup>st</sup> International Workshop on Privacy and Security in Agent-Based Collaborative Environments (**PSACE**) at AAMAS 2006 Conference, Japan, 2006
109. 1<sup>st</sup> International Workshop on Autonomous Intelligent Systems: Agents and Data Mining (**AIS-ADM**), St Petersburg, Russia, 2005
110. 3<sup>rd</sup> European Workshop on Multiagent Systems (**EUMAS**), Brussels, 2005
111. 4<sup>th</sup> International Workshop on Agents and P2P Computing (**AP2P**) @ AAMAS Conference, Utrecht, The Netherlands, 2005
112. 1<sup>st</sup> AAAI Fall Symposium on Agents and the Semantic Web (**ASW**), Arlington, USA, November 2005.
113. 5<sup>th</sup> International Workshop on Agent-Based Simulation (**ABS**), Portugal, 2004
114. 4<sup>th</sup> International Symposium „From Agent Theory to Agent Implementation“ (**AT2AI**), @ 17th European Cybernetics and Systems Research (EMCSR-2004), Vienna, 2004
115. 3<sup>rd</sup> International Workshop on Agents and P2P Computing (**AP2P**) @ AAMAS Conference, New York, USA, 2004
116. 1<sup>st</sup> European Workshop on Multiagent Systems (**EUMAS**), Oxford, UK, 2003
117. 1<sup>st</sup> International Workshop on Autonomy (**Autonomy**) @ AAMAS Conference 2003.
118. 3<sup>rd</sup> International IEEE/ACM Workshop on Agent-based cluster and grid computing (**AgentGrid**), Tokyo, Japan, 2003.
119. 1<sup>st</sup> International Workshop on Teamwork and Coalition Formation @ AAMAS Conference, Bologna, Italy, 2002.
120. 2<sup>nd</sup> International Workshop on Ontologies in Agent Systems (**OAS**) @ AAMAS Conference, Bologna, Italy, 2002.
121. 2<sup>nd</sup> International Workshop on Challenges in Open Agent Environments, @ AAMAS Conference 2002, Bologna, Italy, 2002
122. 10<sup>th</sup> International Workshop on Multi-Agent Systems (**MAAMAW**), Annecy, France, 2001.
123. 2<sup>nd</sup> International Workshop on Infrastructure for Scalable Multi-Agent Systems @ AAMAS Conference, Montreal, Canada, 2001.
124. International Workshop on Ontologies in Agent Systems @ AAMAS Conference, Montreal, Canada, 2001
125. International Workshop on Internet Bots: Systems and Applications (**INBOSA**) @ DEXA Conference, Munich, Germany, 2001.
126. International Workshop on Engineering Societies in the Agents' World (**ESAW**), Prague, 2001
127. International ICSC Symposium on Multi-Agents and Mobile Agents in Virtual Organizations and E-Commerce (**MAMA**), Australia, 2000.
128. International Workshop on Engineering Societies in the Agents' World (**ESAW**) @ ECAI Conference, Berlin, Germany, 2000.

129. International Workshop on Agent-Based Information Systems (**ABIS**) @ DEXA Conference, Greenwich, UK, 2000.
130. 2<sup>nd</sup> German Joint Meeting on DAI, Databases and Information Retrieval (**ADI**), Rostock, Germany, 1999.
131. 1<sup>st</sup> International Workshop on Agent Communication Languages (**ACL**) @ IJCAI Conference, Stockholm, Sweden, 1999.
132. 1<sup>st</sup> International Symposium 'From Agent Theory to Agent Implementation' (**AT2AI**) @ European Conference on Cybernetics and Systems Research, Vienna, 1998.
133. Workshop on Intelligent Agents in Information and Process Management @ 22<sup>nd</sup> German Conference on Artificial Intelligence (**KI**) of German Computer Society, Bremen, 1998.

### **Internet, Web and Services**

134. AAAI Spring Symposium on Intelligent Web Services Meet Social Computing (**AAAI SS**), Stanford, California, 2012
135. International Workshop on Challenges in Mobile Service Computing (**CMSC**) @ ECOWS Conference, Lugano, Switzerland, 2011
136. 9th International Workshop on Service-Oriented Computing: Agents, Semantics and Engineering (**SOCASE**) @ FedCSIS Conference, Szczecin/Stettin, Poland, 2011
137. 8th International Workshop on Service-Oriented Computing: Agents, Semantics and Engineering (**SOCASE**) @ AAMAS, Toronto, Canada, 2010.
138. International IEEE Symposium on Applications and the Internet (**SAINT**), USA, 2001.
139. International Workshop on E-Business & Intelligent Web @ IJCAI 2001, Seattle, USA, 2001

### **Information Systems, Data Mining, P2P Computing**

140. 5th Intl Workshop on Databases, Information Systems and P2P Computing (**DBISP2P**) @ VLDB Conference, Vienna, Austria, 2007
141. 4th Intl Workshop on Databases, Information Systems and P2P Computing (**DBISP2P**) @ VLDB Conference, Seoul, South Korea, 2006
142. 3rd Intl Workshop on Databases, Information Systems and P2P Computing (**DBISP2P**) @ VLDB conference, Trondheim, Norway, 2005
143. 8th International Workshop on High Performance and Distributed Data Mining (**HPDM**) @ 5th Intl. SIAM Conference on Data Mining, Newport CA, USA, 2005.
144. 1st International Workshop on Peer-To-Peer Knowledge Management (**P2PKM**) @ 1st Int. Conference on Ubiquitous Computing, 2004
145. 1st International Workshop on Peer-To-Peer Computing and Databases (**P2P&DB**) @ EDBT Conference, Heraklion, Greece, 2004.
146. International Workshop on Hybrid Intelligent Systems for Data Mining @ IEEE International Conference on Data Mining (**ICDM**), San Jose, USA, 2001.

147. International Workshop on Intelligent Information Integration (**I3**) @ IJCAI Conference, Stockholm, Sweden, 1999.

### **Others**

148.. 9<sup>th</sup> ACM Symposium on Applied Computing (**SAC**), Technical Track on Coordination Languages, Models, and Applications, Seoul, Korea, 2007

149. 1<sup>st</sup> Intl Workshop on Theory and Practice of Open Computational Systems (**TAPOCS**), 2003

150. 12<sup>th</sup> International IEEE Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises (**WETICE**), Linz, Austria, 2003

151. 7<sup>th</sup> IEEE Intl Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises (**WETICE**), Stanford, USA, 1998

152. **ACAI** Workshop on Machine Learning and Applications, Greece, 1999.

### **Further Reviewing:**

I am occasionally invited to serve as a reviewer for the following scientific press.

Book Press: Springer Verlag, MIT Press, Kluwer Academics

### Journals:

- ACM Transactions on Internet Technology
- Int. Journal on Autonomous Agents and Multi-Agent Systems (Kluwer Academic)
- Int. Journal on Applied Artificial Intelligence (Taylor & Francis)
- Int. Journal on Intelligent Information Systems (Kluwer Academic)
- IEEE Journal on Intelligent Systems
- IEEE Journal on Internet Computing
- IEEE Transactions on Data and Knowledge Engineering

## 11. Publications

### 11.1 Books

#### Anthologies:

- [A04-05] Calisti, M.; Unland, R.; Klusch, M. (2005) Eds.: Software Agent-based Applications, Platforms and Development Kits. Whitestein Technologies Series, Birkhäuser, ISBN 3-7643-7347-4
- [A03-03] Klusch, M., Bergamaschi, S., Edwards, P., Petta, P. (2003) Eds.: Intelligent Information Agents: The AgentLink Perspective. LNAI series vol. 2586, Springer.
- [A02-01] Omicini, A.; Zambonelli, F.; Klusch, M.; Tolksdorf, R. (2001) Eds.; Coordination of Internet Agents: Models, Technologies, and Applications. Springer, ISBN 3-540-41613-7.
- [A01-99] Klusch, M. (1999) Ed.: Intelligent Information Agents - Agent-Based Information Discovery and Management on the Internet. Springer, ISBN 3-540-65112-8.

#### Proceedings:

- [P20-10] A. Bernstein, P. Grace, M. Klusch, M. Paolucci (eds). Proceedings of 4th International Workshop on Service Matchmaking and Resource Retrieval in the Semantic Web, at ISWC 2010, Shanghai, China, CEUR, 2010
- [P19-09] Bruza, P.; Rijsbergen, K.v.; Sofge, D.; Lawless, B.; Klusch, M. (2009) Eds.: Quantum Interaction. Third International Symposium QI 2009, Saarbrücken, Germany, March 25 – 27, 2009, LNCS 5494, Springer.
- [P18-08] Klusch, M.; Polleres, A.; Pechoucek, M. (2008) Eds.: Cooperative Information Agents XII. Proceedings of the Eleventh International Workshop CIA 2008, Prague, Czech Republic, September 10 – 12, 2008, LNAI 5180, Springer.
- [P17-08] Kowalczyk, R.; Huhns, M.; Klusch, M.; Maamar, Z.; Vo, Q.B. (Eds.): Proceedings of the International Workshop SOCASE on Service-Oriented Computing: Agents, Semantics, and Engineering. Estoril, Portugal, 2008

- [P16-07] Petta, P., Müller, J., Klusch, M., Georgeff, M. (2007) Eds.: Multiagentsystem Technologies. Proceedings of the 5th German Conference MATES, Leipzig, Germany, LNAI 4687, Springer, 2007
- [P15-07] Klusch, M., Hindriks, K., Sterling, L., Papazoglou, M. (2007) Eds.: Cooperative Information Agents XI. Proceedings of the Eleventh International Workshop CIA 2007, Delft, The Netherlands, September 19 – 21, 2007, LNAI 4676, Springer.
- [P14-06] Klusch, M.; Rovatsos, M.; Payne, T. (2006) Eds.: Cooperative Information Agents X. Proceedings of the Tenth International Workshop CIA 2006, Edinburgh, UK, September 11 – 13, 2006, LNAI series, 4149, Springer.
- [P13-05] Eymann, T.; Klügl, F.; Lamersdorf, W.; Klusch, M.; Huhns, M. (2005) Eds.: Multi-Agent System Technologies III. Proceedings of the 3rd German Conference MATES 2005, September 2005, Koblenz, LNAI series, 3550, Springer.
- [P12-04] Klusch, M.; Ossowski, S.; Kashyap, V.; Unland, R. (2004) Eds.: Cooperative Information Agents VIII. Proceedings of Eighth International Workshop CIA-2004 on Cooperative Information Agents, Erfurt, September 27 - 29, 2004, LNAI series, 3919, Springer
- [P11-03] Schillo, M., Klusch, M.; Müller, J., Tianfield, H. (2003) Eds.: Multi-Agent Systems Technologies. Proceedings of First German Conference MATES 2003, September 2003, Erfurt, LNAI series, 2831, Springer.
- [P10-03] Liu, J.; Klusch, M.; Zhong, N.; Cercone N. (2003) Eds.: Proceedings of the IEEE International Conference on Web Intelligence WI-2003, IEEE Press.
- [P09-03] Liu J.; Faltings, B.; Klusch, M.; Liu, C. (2003) Eds.: Proceedings of the IEEE / WIC International Conference on Intelligent Agent Technology IAT-2003, IEEE Press.
- [P08-03] Klusch, M., Omicini, A., Ossowski, S., Laamanen, H. (2003) Eds.: Cooperative Information Agents VII. Proceedings of Seventh International Workshop CIA-2003 on Cooperative Information Agents, Helsinki, Finland, August 27 - 29, 2003. LNAI series, 2782, Springer.
- [P07-02] Klusch, M., Ossowski, S., Shehory, O. (2002) Eds.: Cooperative Information Agents VI. Proceedings of Sixth International Workshop CIA-2002 on Cooperative Information Agents, Madrid, September 18 - 20, 2002, LNAI series, 2446, Springer.

- [P06-01] Klusch, M. Zambonelli, F. (2001) Eds.: Cooperative Information Agents V, Proceedings of Fifth International Workshop CIA-2001, Modena, Italy, September 6 – 8, 2001, LNAI series, 2182, Springer.
- [P05-00] Bouzeghoub, M.; Klusch, M.; Nutt, W.; Sattler, U. (2000) Eds.: Proceedings of the 7th International Workshop on Knowledge Representation meets Databases (KRDB 2000)
- [P04-00] Klusch, M.; Kerschberg, L. (2000) Eds.: Cooperative Information Agents IV. Proceedings of Fourth International Workshop CIA-2000 on Cooperative Information Agents, Boston, USA, July 7 - 9, 2000, LNAI series, 1860, Springer.
- [P03-99] Klusch, M.; Shehory, O.; Weiß, G. (1999) Eds.: Cooperative Information Agents III. Proceedings of Third International Workshop CIA-99 on Cooperative Information Agents, Uppsala, Sweden, July 31 - August 2, 1999, LNAI series, 1652, Springer.
- [P02-98] Klusch, M.; Weiß, G. (1998) Eds.: Cooperative Information Agents II - Learning, Mobility, and Electronic Commerce for Information Discovery in the Internet. Proceedings of Second International Workshop CIA-98 on Cooperative Information Agents, Paris, July 4 - 7, 1998, LNAI series, 1435, Springer.
- [P01-97] Kandzia, P.; Klusch, M. (1997) Eds.: Cooperative Information Agents. Proceedings of First International Workshop CIA-97 on Cooperative Information Agents, Kiel, Germany, February 26 - 18, 1997, Lecture Notes in Artificial Intelligence, Vol. 1202, Springer.

#### **Theses:**

- [T03-08] Klusch, M. (2008): On Agent-Based Semantic Service Coordination. Habilitation Thesis, University of the Saarland, Saarbruecken, Germany, 466 pages. <http://www-ags.dfki.uni-sb.de/~klusch/habilitation-thesis-klusch-2008-woDOC.pdf>
- [T02-98] Klusch, M. (1998): Kooperative Informationsagenten im Internet. PhD Thesis (Dissertation). Schriftenreihe Forschungsergebnisse zur Informatik, Band 36, Kovac Verlag, Hamburg, ISBN 3-86064-746-6, 200 pages.
- [T01-91] Klusch, M. (1991): Entwicklung und Implementierung eines hybrid-neuralen Systems zur Klassifikation von Sternen. Diploma Thesis, Christian-Albrecht-Universität zu Kiel, Institut für Informatik und Praktische Mathematik, Kiel, Germany.

## 11.2 Special Issues of Journals

- [S03-05] Klusch, M.; Ossowski, S.; Unland, R. (Guest editors), *Engineering Artificial Intelligence Applications*, Special Issue on Best Papers of CIA 2004, Elsevier Science, vol. 18 (7), 2005
- [S02-02] Klusch, M.; Zambonelli, F. (Guest editors), *Cooperative Information Systems*, Special Issue on Selected Best Papers of CIA 2002, World Scientific, 11 (3), 2002.
- [S01-01] Klusch, M. (Guest editor), *Cooperative Information Systems*, Double Special Issue on Intelligent Information Agents: Theory and Applications, 10 (1&2), World Scientific, March 2001

## 11.3 Journal Papers

- [J25-12] Klusch, M.; Kapahnke, P. (2012): Adaptive Signature-Based Semantic Selection of Services with OWLS-MX3. *Multiagent and Grid Systems*, 8(1), IOS Press.
- [J24-10] Klusch, M.; Kapahnke, P.; Zinnikus, I. (2010): Adaptive Hybrid Semantic Selection of SAWSDL Services with SAWSDL-MX2. *Semantic Web and Information Systems*, 6(4), IGI Global.
- [J23-09] Kuester, U.; Koenig-Ries, B.; Petrie, C.; Klusch, M. (2009): On the Evaluation of Semantic Web Service Frameworks. *Semantic Web and Information Systems*, 4, IGI Global.
- [J22-09] Klusch, M.; Fries, B.; Sycara, K. (2009): OWLS-MX: A Hybrid Semantic Web Service Matchmaker for OWL-S Services. *Web Semantics*, 7(2), Elsevier
- [J21-09] Klusch, M.; Kaufer, F. (2009): WSMO-MX: A Hybrid Semantic Web Service Matchmaker. *Web Intelligence and Agent Systems*, 7(2), IOS Press
- [J20-06] Blankenburg, B.; Klusch, M. (2006): Privacy-Preserving Coalition Forming Between Rational Service Agents. *Künstliche Intelligenz*, KI 1/2006, BöttcherIT Verlag.
- [J19-06] Da Silva, J.C.; Klusch, M. (2006): Inference on Distributed Data Clustering. *Engineering Artificial Intelligence Applications*, Special Issue on Data Mining, P. Perner (eds.), Elsevier.

- [J18-06] Da Silva, J.C.; Klusch, M.; Lodi, S., Moro, G-L. (2006): Privacy-preserving agent-based distributed data clustering. *Web Intelligence and Agent Systems*, 4(2):221-238, IOS Press
- [J17-06] Schuldt, H.; Möller, R.; Klusch, M.; Gerber, A. (2006): Next Generation Applications in Healthcare Digital Libraries using Semantic Service Composition and Coordination. *Health Informatics*, 12(2), SAGE, USA
- [J16-05] Costa Da Silva, J.; Giannella, C.; Bhargava, R.; Kargupta, H.; Klusch, M.; (2005): Distributed Data Mining and Agents. *Engineering Applications of Artificial Intelligence*, 18 (7), Elsevier
- [J15-04] Contreras, J.; Klusch, M.; Krawczyk, J. (2004): Numerical Solutions to Nash-Cournot Equilibria in Coupled Constraint Electricity Markets. *IEEE Transactions on Power Systems*, 19(1), February 2004, IEEE Press.
- [J14-04] Gerber, A.; Klusch, M. (2004): AGRICOLA – Agenten für mobile Planungsdienste in der Landwirtschaft. *Künstliche Intelligenz*, KI 1/2004, pp 38-42, arendtap Verlag, (in German).
- [J13-03] Gerber, A.; Russ, C.; Klusch, M. (2003). Supply Web Co-ordination by an Agent-based Trading Network with Integrated Logistics Services. *Electronic Commerce Research and Applications*. Vol 2 (2), Elsevier.
- [J12-02] Klusch, M.; Gerber, A. (2002): Dynamic Coalition Formation among Rational Agents. *IEEE Intelligent Systems*, 17 (3), May/June, IEEE CS Press
- [J11-02] Klusch, M.; Gerber, A. (2002): CASA: Agent-based Integrated Services Network for Timber Production and Sales. *IEEE Intelligent Systems*, 17(2), January/February.
- [J10-02] Sycara, K.; Widoff, S.; Klusch, M.; Lu, J. (2002): LARKS: Dynamic Matchmaking Among Heterogeneous Software Agents in Cyberspace. *Autonomous Agents and Multi-Agent Systems*, Kluwer Academic Press
- [J09-01] Klusch, M. (2001): Information Agent Technology for the Internet: A Survey. *Data and Knowledge Engineering*, Special Issue on Intelligent Information Integration, D. Fensel (Ed.), Vol. 36(3), Elsevier Science, pages 337 - 372
- [J08-00] Sierra, C; Wooldridge, M; Sadeh, N; Conte, R; Klusch, M; Treur J (2000): Agent Research and Development in Europe (Part One), *Intelligence in Industry*, Issue 4, May/June

- [J07-00] Sierra, C; Wooldridge, M; Sadeh, N; Conte, R; Klusch, M; Treur J (2000): Agent Research and Development in Europe (Part Two), *Intelligence in Industry*, Issue 5, July/August
- [J06-00] Sierra, C; Wooldridge, M; Sadeh, N; Conte, R; Klusch, M; Treur J (2000): Agent Research and Development in Europe (Part Three), *Intelligence in Industry*, Vol 6, September/October 2000, pp. 7-13.
- [J05-00] Sierra, C; Wooldridge, M; Sadeh, N; Conte, R; Klusch, M; Treur J (2000): Agent Research and Development in Europe. *Information Services and Use*, 20(4), 2000, pp 189-202
- [J04-99] Sycara, K.; Lu, J.; Klusch, M.; Widoff, S. (1999): Dynamic Service Matchmaking among Agents in Open Information Environments. *ACM SIGMOD Record*, Special Issue on Semantic Interoperability in Global Information Systems. A. Ouksel, A. Sheth (Eds.), ACM Press
- [J03-98] Klusch, M.; Benn, W. (1998): Intelligente Informationagenten im Internet. *Künstliche Intelligenz*, Special Issue on Intelligent Information Agents, E. Andre and T. Rist (Eds.), Springer
- [J02-94] Klusch, M. (1994): The Use of a Hybrid Neural System for the Classification of Stars. *Vistas in Astronomy*, 38 (3), Special Issue on Neural Network Applications in Astronomy, Elsevier Science, pp.299-307
- [J01-93] Klusch, M.; Napiwotzki, R. (1993): HNS - A hybrid neural system and its use for the classification of stars. *European Journal on Astronomy and Astrophysics*, Vol. 276, pp.309-319.

#### 11.4 Book Chapters

- [B16-12] Kapahnke, P.; Klusch, M. (2012): Adaptive Hybrid Selection of Semantic Services: The iSeM Matchmaker. In: Blake, M.B.; Cabral, L.; König-Ries, B.; Küster, U.; Martin, D. (Eds.): *Semantic Web Services – Advancement through Evaluation*; 19 pages; Springer.
- [B16-12] Klusch, M. (2012): The S3 Contest: Performance Evaluation of Semantic Service Matchmakers. In: Blake, M.B.; Cabral, L.; König-Ries, B.; Küster, U.; Martin, D. (Eds.): *Semantic Web Services – Advancement through Evaluation*; 18 pages; Springer.

- [B15-09] Nesbigall, S.; Warwas, S.; Kapahnke, P.; Schubotz, R.; Klusch, M.; Fischer, K.; Slusallek, P. (2010): ISReal: A Platform for Intelligent Simulated Realities. In: J. Filipe, A. Fred, B. Sharp (Eds.) Best papers of Agents and Artificial Intelligence 2010. Communications in Computer and Information Science. Springer.
- [B14-09] Kuester, U.; Koenig-Ries, B.; Klusch, M. (2009): Evaluating Semantic Web Service Technologies: Criteria,, Approaches and Challenges. In: Progressive Concepts for Semantic Web Evolution: Applications and Developments. Advances in Semantic Web Information Systems series. IGI Global.
- [B13-08] Klusch, M. (2008): Semantic Web Service Coordination. In: M. Schumacher, H. Helin, H. Schuldt (Eds.) CASCOM - Intelligent Service Coordination in the Semantic Web. Chapter 4. Birkhäuser Verlag, Springer.
- [B12-08] Klusch, M. (2008): Semantic Web Service Description. In: M. Schumacher, H. Helin, H. Schuldt (Eds.) CASCOM - Intelligent Service Coordination in the Semantic Web. Chapter 3. Birkhäuser Verlag, Springer.
- [B11-08] B. Blankenburg, L. Botelho, F. Calhau, A. Fernandez, M. Klusch, S. Ossowski (2008): Service Composition. In: M. Schumacher, H. Helin, H. Schuldt (Eds.) CASCOM - Intelligent Service Coordination in the Semantic Web. Chapter 5. Birkhäuser Verlag, Springer.
- [B10-08] D. Bonardi, L. Botelho, M. Klusch, A. Lopes, T. Möller, A. De Oliveira e Sousa, M. Vasirani (2008): Quantitative Analysis. In: M. Schumacher, H. Helin, H. Schuldt (Eds.) CASCOM - Intelligent Service Coordination in the Semantic Web. Chapter 16. Birkhäuser Verlag, Springer.
- [B09-08] L. Botelho, A. Fernandez, M. Klusch, L. Pereira, T. Santos, P. Pais, M. Vasirani (2008): Service Discovery. In: M. Schumacher, H. Helin, H. Schuldt (Eds.) CASCOM - Intelligent Service
- [B08-04] Klusch, M. (2004): Toward Quantum Computational Agents. In: Computational Autonomy and Agents. M Nickles, M Rovatsos, G Weiss (eds.), LNAI series, 2969, Springer.
- [B07-04] Klusch M., Rist, T., Andre, E. Ishida, T., Nakashini, H. (2004): Interactive Information Agents and Interfaces. In: The Handbook of Human Factors in Web Design, RW Proctor, K-P L Vu (eds.), Lawrence Erlbaum Associates.
- [B06-03] Klusch, M., Lodi, S., Moro, G-L. (2003): Agent-Based Distributed Data Mining: The KDEC Scheme. In: Klusch, M., Bergamaschi, S., Edwards, P., Petta, P. (2003) Eds.: Intelligent Information Agents: The AgentLink Perspective. LNAI series, 2586, Springer.

- [B05-02] Klusch, M., Bürckert, H.-J., Gerber, A., Russ, C. (2002): Applications of Information Agents and Systems. In: L.C. Jain (ed.), Practical Applications of Intelligent Agents, Physica-Verlag/Springer.
- [B04-01] Klusch, M, Sycara, K. (2001): Brokering and Matchmaking for Coordination of Agent Societies: A Survey. In: Coordination of Internet Agents, A. Omicini et al. (eds.), Springer
- [B03-00] Klusch, M. (2000): Agent-Mediated Trading: Intelligent Agents and E-Business. In: A.L.G. Hayzelden, R. Bourne (eds.): Agent Technology Applied to Networked Systems. John Wiley & Sons, Chicester, England
- [B02-00] Klusch, M. (2000): Information Agents for Knowledge Discovery and Data Mining on the Internet. In: U. Küsters, K.D. Wilde (Eds.), Handbook Data Mining im Marketing - Knowledge Discovery in Databases. Chapter 10.2, Vieweg/Gabler Verlag (in German).
- [B01-96] Klusch, M. (1996): Utilitarian coalition formation between information agents. In: S. Kirn and G. O'Hare (Eds.), Cooperative Knowledge Processing, Chapter 13, Springer, London

### 11.5 Conference Papers

- [C62-12] Diplaris, S.; Papadopoulos, S.; Kompatsiaris, I.; Goker, A.; Macfarlane, A.; Spangenberg, J.; Hacid, H.; Maknavicius, L.; Klusch, M. (2012): SocialSensor: Sensing User Generated Input for Improved Media Discovery and Experience. Proceedings of World Wide Web Conference, EU Projects Track, Lyon, France.
- [C61-12] Warwas, S.; Fischer, K.; Klusch, M.; Slusallek, P. (2012): Bochica: A Model-Driven Framework for Multi-Agent Systems. Proceedings of 4<sup>th</sup> International Conference on Agents and Artificial Intelligence (ICAART), Vilamoura, Portugal
- [C60-11] Klusch, M.; Cao, X.; Kapahnke, P.; Warwas, S. (2011): Semantics and Agents for Intelligent Simulation and Collaboration in the 3D Internet. Proceedings of 7<sup>th</sup> International Conference on Semantics, Knowledge and Grids (SKG), IEEE Press.
- [C59-11] Richter, J.; Klusch, M.; Kowalczyk, R. (2011): Monotonic Mixing of Decision Strategies for Agent-based Bargaining. Proceedings of 9<sup>th</sup> German Conference on Multiagent System Technologies (MATES), Berlin, Germany, Springer, LNCS. **Best Paper Award**

- [C58-11] Warwas, S.; Klusch, M. (2011): Making Multiagent System Designs Reusable: A Model-driven Approach. Proceedings of IEEE International Conference on Intelligent Agent Technology (IAT), Lyon, France. IEEE CS Press.
- [C57-10] Kapahnke, P.; Liedtke, P.; Nesbigall, S.; Warwas, S.; Klusch, M. (2010): ISReal: An Open Platform for Semantic-Based 3D Simulations in the 3D Internet. Proceedings of 9<sup>th</sup> International Semantic Web Conference (ISWC), LNCS 6414, Springer.
- [C56-10] Klusch, M.; Kapahnke, P. (2010): iSeM: Approximated Reasoning for Adaptive Hybrid Selection of Semantic Services. Proceedings of 4<sup>th</sup> IEEE International Conference on Semantic Computing (ICSC), USA. Invited Reprint of [C56-10].
- [C55-10] Klusch, M.; Kapahnke, P. (2010): iSeM: Approximated Reasoning for Adaptive Hybrid Selection of Semantic Services. Proceedings of 7<sup>th</sup> Extended Semantic Web Conference (ESWC), LNCS 6089, Springer.
- [C54-10] Richter, J.; Klusch, M.; Kowalczyk, R. (2010): A Multistage Fuzzy Decision Approach for Modeling Adaptive Negotiation Strategies. Proceedings of 19<sup>th</sup> IEEE International Conference on Fuzzy Systems (FuzzIEEE), Spain, 2010
- [C53-10] Richter, J.; Klusch, M.; Kowalczyk, R. (2010): On Monotonic Mixed Tactics and Strategies for Bilateral Multi-Issue Negotiations. Proceedings of 9<sup>th</sup> International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), Toronto, Canada. AAAI Press.
- [C52-09] Nesbigall, S.; Warwas, S.; Kapahnke, P.; Schubotz, R.; Klusch, M.; Fischer, K.; Slusallek, P. (2009): Intelligent Agents for Semantic Simulated Realities – The ISReal Platform. Proceedings of International Conference on Agents and Artificial Intelligence (ICAART), Porto, Portugal.
- [C51-09] Richter, J.; Kowalczyk, R.; Klusch, M. (2009): Multistage Fuzzy Decision Making in Bilateral Negotiation with Finite Termination Times. Proceedings of 22<sup>nd</sup> Australasian Joint Conference on Artificial Intelligence (AI), Melbourne, Australia.
- [C50-09] Klusch, M.; Kapahnke, P.; Zinnikus, I. (2009): SAWSDL-MX2: A Machine-Learning Approach for Integrating Semantic Web Service Matchmaking Variants. Proceedings of IEEE 7<sup>th</sup> International Conference on Web Services (ICWS), Los Angeles, USA. AR 15%
- [C49-09] Klusch, M.; Kapahnke, P.; Zinnikus, I. (2009): Hybrid Adaptive Web Service Selection with SAWSDL-MX and WSDL Analyzer. Proceedings of 6th European Semantic Web Conference (ESWC), Greece, IOS Press, AR 18%

- [C48-08] Klusch, M.; Schubotz, R. (2008): Quantum Service Selection. Proceedings of IEEE/ACM International Conference on Intelligent Agent Technology (IAT), Sydney, Australia, IEEE CS Press. AR: 19%
- [C47-08] Klusch, M. (2008): Toward Quantum Matchmaker Agents. Proceedings of IEEE/ACM International Conference on Intelligent Agent Technology (IAT), Sydney, Australia, IEEE CS Press. AR: 19%
- [C46-08] Klusch, M.; Nesbigall, S.; Zinnikus, I. (2008): MDSM: A Model-Driven Approach to Semantic Service Selection for Collaborative Business Processes. Proceedings of IEEE/ACM International Conference on Web Intelligence (WI), Sydney, Australia, IEEE CS Press. AR: 19%
- [C45-08] Hahn, C.; Nesbigall, S.; Warwas, S.; Zinnikus, I.; Fischer K.; Klusch, M. (2008): Model-Driven Approach to the Integration of Multiagent Systems and Semantic Web Services. Proceedings of International IEEE/ACM Conference on Intelligent Agent Technology (IAT), Sydney, Australia, AR 19%
- [C44-08] Klusch, M.; Kapahnke, P.; Kaufer, F. (2008): Evaluation of Hybrid WSML Service Retrieval with WSMO-MX. Proceedings of IEEE International Conference on Web Services (ICWS), Beijing, China, IEEE Press. AR 18%
- [C43-08] Klusch, M.; Fries, B. (2008): Hybrid Semantic Web Service Retrieval: A Case Study with OWLS-MX. Proceedings of the 2<sup>nd</sup> IEEE International Conference on Semantic Computing (ICSC), Santa Clara, USA, IEEE Press.
- [C42-08] Klusch, M.; Xing, Z. (2008): Deployed Semantic Services for the Common User of the Web: A Reality Check. Proceedings of the 2<sup>nd</sup> IEEE International Conference on Semantic Computing (ICSC), Santa Clara, USA, IEEE Press.
- [C41-07] Klusch, M.; Schubotz, R. (2007): Programming and Simulation of Quantum Search Agents. Proceedings of the IEEE International Conference on Systems, Man and Cybernetics (SMC), Montreal, Canada, IEEE Press.
- [C40-07] Da Silva, J.C.; Klusch, M. (2007): Privacy-Preserving Discovery of Frequent Patterns in Time Series. Proceedings of the 7<sup>th</sup> Industrial Conference on Data Mining (ICDM), Leipzig, Germany, Springer.
- [C39-07] Klusch, M.; Schubotz, R. (2007): Programming and Simulation of Quantum Search Agents. Proceedings of the 6<sup>th</sup> International Conference on Autonomous Agents and Multiagent Systems (AAMAS), Hawaii, USA. Short version of [C41-07]

- [C38-06] Kaufer, F.; Klusch, M. (2006): WSMO-MX: A Logic Programming Based Hybrid Service Matchmaker. Proceedings of the 4<sup>th</sup> IEEE European Conference on Web Services (ECOWS), IEEE CS Press, Zurich, Switzerland
- [C37-06] Klusch, M.; Gerber, A. (2006): Fast Composition Planning of OWL-S Services and Application. Proceedings of the 4<sup>th</sup> IEEE European Conference on Web Services (ECOWS), IEEE CS Press, Zurich, Switzerland
- [C36-06] Basters, U.; Klusch, M. (2006): RS2D: Fast Adaptive Search for Semantic Web Services in Unstructured P2P Networks. Proceedings of the 5<sup>th</sup> International Semantic Web Conference (ISWC), Athens, USA, Springer.
- [C35-06] Basters, U.; Klusch, M. (2006): Risk Driven Semantic P2P Service Retrieval. Proceedings of the 6<sup>th</sup> IEEE International Conference on P2P Computing (P2P 2006), Cambridge, UK, IEEE CS Press.
- [C34-06] Hutter, D.; Klusch, M.; Volkamer, M. (2006): Information Flow Analysis Based Security Checking of Health Service Composition Plans. . Proceedings of the 1<sup>st</sup> European Conference on eHealth , Fribourg, Switzerland.
- [C33-06] Bergenti, F.; Caceresz, C.; Fernandez, A.; Fröhlich, N.; Helin, H.; Keller, O.; Kinnunen, A.; Klusch, M.; Laamanen, H.; Lopez, A.; Ossowski, S.; Schumacher, M. (2006): Context-aware Service Coordination for Mobile e-Health Applications. Proceedings of the 1<sup>st</sup> European Conference on eHealth, Fribourg, Switzerland, GI Edition, Lecture Notes in Informatics.
- [C32-06] Lopes, A.; Costa, P.; Bergenti, F.; Klusch, M.; Blankenburg, B.; Möller, T.; Schuldt, H. (2006): Context-aware Secure Service Composition Planning and Execution on E-Health Environments. Proceedings of the 1<sup>st</sup> European Conference on eHealth, Fribourg, Switzerland, GI Edition, Lecture Notes in Informatics.
- [C31-06] Klusch, M.; Fries, B.; Sycara, K. (2006): Automated Semantic Web Service Discovery with OWLS-MX. Proceedings of the 5<sup>th</sup> International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), Hakodate, Japan, ACM Press. **Best Paper Award Nominee**
- [C30-05] Da Silva, J.C.; Klusch, M. (2005): Confidentiality Detection of Outliers in Time Series Data. Proceedings of the IEEE International Conference on Computational Intelligence for modelling, Control and Automation (CIMCA), Vienna, Austria, IEEE Computer Society Press.

- [C29-05] Blankenburg, B.; Klusch, M. (2005): BSCA-F: Efficient fuzzy valued stable coalition forming among agents. Proceedings of the IEEE International Conference on Intelligent Agent Technology (IAT), Compiègne, France, IEEE Computer Society Press.
- [C28-05] Blankenburg, B.; Klusch, M. (2005): BSCA-P: Privacy-Preserving Coalition Formation. Proceedings of the 3<sup>rd</sup> German Conference on Multi-Agent System Technologies (MATES), Koblenz, Germany, LNAI series, 3550, Springer.  
**Best Paper Award**
- [C27-05] Da Silva, J.C.; Klusch, M. (2005): Inference on Distributed Data Clustering. Proceedings of the 5<sup>th</sup> Industrial Conference on Data Mining (ICDM), Leipzig, Germany, July 2005
- [C26-05] Klusch, M. (2005): Coordination of Quantum Internet Agents. Proceedings of the 4<sup>th</sup> Intl. Conference on Autonomous Agents and Multiagent Systems (AAMAS), Utrecht, The Netherlands, July 2005.
- [C25-05] Blankenburg, B.; Ramchurn; Gopal; Jennings, N.; Klusch, M. (2005): Trusted Kernel-Based Coalition Formation. Proceedings of the 4<sup>th</sup> International Conference on Autonomous Agents and Multiagent Systems (AAMAS), Utrecht, The Netherlands, July 2005.
- [C24-04] Da Silva, J.C.; Klusch, M.; Lodi, S.; Moro, G.L. (2004): Inference attacks in peer-to-peer homogeneous data mining. Proceedings of the European Conference on Artificial Intelligence (ECAI), Valencia, Spain.
- [C23-04] Blankenburg, B.; Klusch, M. (2004): On Safe Kernel Stable Coalition Forming Among Agents. Proceedings of the 3<sup>rd</sup> International Conference on Autonomous Agents and Multiagent Systems (AAMAS), New York, USA
- [C22-04] Klusch, M. (2004): Toward Intelligent Agents on Quantum Computers. Proceedings of the 3<sup>rd</sup> International Conference on Autonomous Agents and Multiagent Systems (AAMAS), NY, USA
- [C21-03] Klusch, M., Lodi, S., Moro, G-L. (2003): The Role of Agents in Distributed Data Mining: Issues and Benefits. Proceedings of the 2<sup>nd</sup> IEEE International Conference on Intelligent Agent Technology (IAT), Halifax, Canada
- [C20-03] Klusch, M., Lodi, S., Moro, G-L. (2003): Distributed Clustering Based on Sampling Local Density Estimates. Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI), Acapulco, Mexico

- [C19-03] Blankenburg, B., Klusch, M., Shehory, O. (2003): Fuzzy Kernel-Stable Coalitions Between Rational Agents. Proceedings of the 2<sup>nd</sup> International Conference on Autonomous Agents and Multiagent Systems (AAMAS), Melbourne, Australia.
- [C18-03] Gerber, A., Klusch, M. (2003): DCF-S: A Dynamic Coalition Formation Scheme for Rational Agents. Proceedings of the 2<sup>nd</sup> International Conference on Autonomous Agents and Multiagent Systems (AAMAS), Melbourne, Australia.
- [C17-03] Klusch, M., Lodi, S., Moro, G-L. (2003): Issues of Agent-Based Distributed Data Mining. Proceedings of the 2<sup>nd</sup> International Conference on Autonomous Agents and Multiagent Systems (AAMAS), Melbourne, Australia.
- [C16-02] Gerber, A., Russ, C., Klusch, M. (2002): An Agent-Based Approach for Integrating Logistics Services into a B2B Marketplace. Proceedings of the 3<sup>rd</sup> International Conf. on Internet Computing (IC), Las Vegas, USA.
- [C15-02] Gerber, A., Kammenhuber, N., Klusch, M. (2002): CASA: A Distributed Holonic Multiagent Architecture for Timber Production. Proceedings of the 1<sup>st</sup> International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), Bologna, Italy.
- [C14-02] Klusch, M., Gerber, A. (2002): Issues of Dynamic Coalition Formation Among Rational Agents on the Internet. Proceedings of the 2<sup>nd</sup> International Conference on Knowledge Systems for Coalition Operations (KSCO), Toulouse, France.
- [C13-01] Klusch, M., Gerber, A. (2001): An agent-based mobile e-commerce service platform for forestry and agriculture. Proceedings of the 2<sup>nd</sup> Asia-Pacific Conference on Intelligent Agent Technology (IAT), Japan.
- [C12-01] Schillo, M.; H.-J. Bürckert; M. Klusch; K. Fischer (2001): Towards a Definition of Robustness for Market-Style Open Multi-Agent Systems. Proceedings of the 5<sup>th</sup> International Conference on Autonomous Agents, Montreal, Canada, ACM Press.
- [C11-01] Gerber, A., Russ, C., Klusch, M., Zinnikus, I. (2001): Holonic Agents for the Coordination of Supply Webs. Proceedings of the Intl. Conference on Autonomous Agents (Agents 2001), Montreal, Canada

- [C10-01] Schillo, M., Bürkert, H.-J., Klusch, M., Fischer, K. (2001): Applying Sociological Theory to Designing Autonomous Agents for Robust E-Commerce Markets. Proceedings of the International Conference on Autonomous Agents (Agents 2001), Montreal, Canada
- [C09-00] Jonker, C., Klusch, M., and Treur, T., (2000): Design of Collaborative Information Agents, Proceedings of the 12<sup>th</sup> Belgium-Netherlands Artificial Intelligence Conference (BNAIC), pp. 305 - 306.
- [C08-99] Contreras, J.; Klusch, M.; Vielhak, T.; Yen, J.; Wu, F. (1999): Multi-Agent Coalition Formation in Transmission Planning: Bilateral Shapley Value and Kernel Approaches. Proceedings of the 13<sup>th</sup> International Power Systems Computation Conference (PSCC), Trondheim, Norway.
- [C07-98] Contreras, J.; Klusch, M.; Yen, J. (1998): Multi-Agent Coalition Formation in Power Transmission Planning. Proceedings of the 4<sup>th</sup> International Conference on Artificial Intelligence in Planning Systems (AIPS), June 8-10, 1998, Pittsburgh, USA.
- [C06-98] Contreras, J.; Klusch, M.; Wu, F.W. (1998): Multiagent Coalition Formation in Power Transmission Planning: A Bilateral Shapley Value Approach, Proceedings of the International Conference on Electrical Power Systems Operation and Management EPSOM 98, 22.-25.9.1998, Zürich, Switzerland.
- [C05-97] Klusch, M.; Contreras, J.; Wu, F.; Shehory, O. (1997): Coalition Formation in a Power Transmission Planning Environment. Proceedings of the 2<sup>nd</sup> International Conference on Practical Applications of Multi-Agent Systems PAAM-97, April 1997, London (UK)
- [C04-96] Klusch, M.; Shehory, O. (1996): A Polynomial Kernel-Oriented Coalition Algorithm for Rational Information Agents. Proceedings of the 2<sup>nd</sup> International Conference on Multi-Agent Systems ICMAS-96, 9.-13.12.1996, Kyoto (Japan), AAAI Press
- [C03-95] Klusch, M.: Cooperative Discovery of Interdatabase Dependencies by Coalitions of Rational Information Agents. Proceedings of the 20<sup>th</sup> International Conference ITP-95 on Interaction between Intelligent Entities, 16.-21.6.1995, Plovdiv (Bulgarien)
- [C02-95] Klusch, M. (1995): Coalition-based cooperation between intelligent agents for a contextual recognition of interdatabase dependencies. Proceedings of the 1<sup>st</sup> International Conference on Multi-Agent Systems ICMAS-95, 12.-14.6.1995, San Francisco, USA

[C01-93] Klusch, M. (1993): HNS: a hybrid neural system and its use for the classification of stars. Proceedings of International Joint Conference on Neural Networks IJCNN-93, 10/1993, Nagoya (Japan), pp.687-692

## 11.6 Workshop and Symposium Papers

[W34-10] Klusch, M.; Kapahnke, P. (2010): Adaptive Signature-Based Selection of Semantic Services in OWL-S. Proceedings of 1<sup>st</sup> International IEEE Workshop on Service-Oriented Computing and Multi-Agent Systems (SOCMAS) at IEEE Congress on Services, Invited copy of [W33-09].

[W33-09] Klusch, M.; Kapahnke, P. (2009): OWLS-MX3: An Adaptive Hybrid Semantic Service Matchmaker for OWL-S. Proceedings of 3<sup>rd</sup> International Workshop on Semantic Matchmaking and Resource Retrieval (SMR2) at ISWC, Washington, USA; CEUR vol 525.

[W32-08] Klusch, M.; Kapahnke, P. (2008): Semantic Web Service Selection with SAWSDL-MX. CEUR Proceedings of 2<sup>nd</sup> International Workshop on Semantic Matchmaking and Resource Retrieval (SMR2) at ISWC, Karlsruhe, Germany.

[W31-08] Klusch, M.; Nesbigall, S.; Zinnikus, I. (2008): Model-Driven Semantic Web Service Matchmaking for Collaborative Business Processes. Proceedings of 2<sup>nd</sup> International Workshop on Semantic Matchmaking and Resource Retrieval (SMR2) at ISWC, Karlsruhe, Germany; CEUR.

[W30-08] C. Hahn, S. Nesbigall, S. Warwas, I. Zinnikus, M. Klusch, K. Fischer (2008): Model-driven Approach to the Integration of Multiagent Systems and Semantic Web Services. Proceedings of IEEE 3rd International Workshop on Modeling, Design, and Analysis for Service-oriented Architecture (MDA4SOA), Munich, Germany.

[W29-07] Klusch, M.; Kaufer, F. (2007): Performance of Hybrid WSML Service Matching with WSMO-MX: Preliminary Results. Proceedings of 1st Intl Joint Workshop on Semantic Matchmaking and Resource Retrieval, at Intl Semantic Web Conference, Busan, Korea; CEUR.

[W28-07] Klusch, M.; Xing, Z. (2007): Semantic Web Services in the Web: A Preliminary Reality Check. Proceedings of 1<sup>st</sup> International Joint Workshop on Semantic Matchmaking and Resource Retrieval, at Intl. Semantic Web Conference (ISWC), Busan, Korea; CEUR.

- [W27-07] Klusch, M.; Fries, B. (2007): Hybrid OWL-S Service Retrieval with OWLS- MX: Benefits and Pitfall. Proceedings of 1st Intl. Joint Workshop on Semantic Matchmaking and Resource Retrieval, at Intl. Semantic Web Conference, Busan, Korea; CEUR.
- [W26-07] Da Silva, J.C.; Klusch, M. (2007): Privacy Preserving Pattern Discovery in Distributed Time Series. Proceedings of 3<sup>rd</sup> Intl. Workshop on Privacy Data Management (PDM), Istanbul, Turkey, IEEE CS Press.
- [W25-06] Blankenburg, B.; He, M.; Klusch, M.; Jennings, N.R. (2006): Risk-Bounded Formation of Fuzzy Coalitions Among Service Agents. Proceedings of 10<sup>th</sup> Intl Workshop on Cooperative Information Agents, LNAI 4149, Springer, Edinburgh, UK.
- [W24-06] Klusch, M.; Renner, K-U. (2006): Fast Dynamic Re-Planning of Composite OWL-S Services. Proceedings of 2<sup>nd</sup> IEEE Intl. Workshop on Service Composition (SerComp), IEEE CS Press, Hongkong, China.
- [W23-06] Klusch, M.; Gerber, A. (2006): Evaluation of Service Composition Planning with OWLS-XPlan. Proceedings of 2<sup>nd</sup> IEEE Intl Workshop on Service Composition (SerComp), IEEE CS Press, Hongkong, China.
- [W22-06] Klusch, M., Hutter, D., Volkamer, M., Gerber, A. (2006): Provably secure execution of composed semantic web services. Proceedings of the 1<sup>st</sup> Intl. Workshop on Privacy and Security of Agent-Based Collaborative Environments (PSACE), AAMAS 2006 Conference, Hakodate, Japan.
- [W21-05] Da Silva, J.C.; Klusch, M. (2005): CoDOTS: Secure outlier detection in distributed time series. Proceedings IEEE International Conference on Data Mining (ICDM) Workshop on Temporal Data Mining, Houston, USA.
- [W20-05] Möller, T.; Schuldt, H.; Gerber, A.; Klusch, M. (2005): Semantic Service Composition and Co-ordination in CASCOM. Proceedings of 3<sup>rd</sup> International Workshop on Healthcare Digital Libraries (HDL), Vienna, Austria.
- [W19-05] Klusch, M.; Fries, B.; Khalid, M., Sycara, K. (2005): OWLS-MX: Hybrid Semantic Web Service Retrieval. Proceedings of the 1<sup>st</sup> International AAAI Fall Symposium on Agents and the Semantic Web, Arlington VA, USA, AAAI Press, 2005
- [W18-05] Klusch, M.; Gerber, A.; Schmidt, M. (2005). TSemantic Web Service Composition Planning with OWLS-XPlan. Proceedings of the 1<sup>st</sup> International AAAI Fall Symposium on Agents and the Semantic Web, Arlington VA, USA, AAAI Press.

- [W17-05] Blankenburg, B.; Klusch, M. (2005): BSCA-F: Fuzzy Bilateral Shapley Value Based Coalition Forming. Proceedings of the International IJCAI-2005 Workshop on Game Theory and Decision Theory (GTDT), Edinburgh.
- [W16-05] Helin, H. et al. (2005): Context-aware business application service coordination in mobile computing environments. Proceedings of the International AAMAS-2005 Workshop on Ambient Intelligence, Utrecht
- [W15-02] Gerber, A., Klusch, M. (2002): Issues of Dynamic Coalition Formation Among Rational Agents. Proceedings of the International Workshop on Teamwork and Coalition Formation, at AAMAS 2002 Conference, Bologna.
- [W14-02] Gerber, A., Klusch, M. (2002): Integration of Logistics Services into an Electronic Marketplace using Multiagent Technology. Proceedings of the 14<sup>th</sup> International CAISE Workshop on Web Services & E-Business Technology, Toronto, CA.
- [W13-01] Klusch, M., Gerber, A. (2001): CASA: Agents for mobile integrated commerce in forestry and agriculture (Long version). Proceedings of the International IJCAI Workshop E-Business & Intelligent Web, Seattle, USA.
- [W12-01] Fischer, K., Hutter, D., Klusch, M., Stephan, W. (2001): Towards a methodology for the design of secure mobile multi-agent system. Proceedings of the International Workshop on Security and mobile multi-agent systems.
- [W11-00] Jonker, C., Klusch, M., Treur, J. (2000): Design of collaborative information agents. Proceedings of the 4<sup>th</sup> International Workshop on Cooperative Information Agents, LNAI series, 1860, Springer.
- [W10-99] Klusch, M. (1999): Intelligent Agents and Electronic Commerce. Invited Paper in Proceedings of International Symposium IMPACT-99 (Impact of agent technology on telecommunications), Seattle, USA, ISSN 0904188647.
- [W09-99] Sycara, K.; Lu, J.; Klusch, M.; Widoff, S. (1999): Matchmaking Among Heterogeneous Agents in the Internet. Proceedings AAAI Spring Symposium on Intelligent Agents in Cyberspace, Stanford, USA.
- [W08-96] Klusch, M.; Shehory, O. (1996): Coalition Formation Among Rational Information Agents. Proceedings of the 7<sup>th</sup> European Workshop on Modelling Autonomous Agents in a Multi-Agent World MAAMAW-96, 22.-25.1.1996, Eindhoven (Netherlands), W. van de Velde/J. Perram (Eds.), LNAI Series, 1038:204-217, Springer

- [W07-95] Klusch, M. (1995): Cooperative Recognition of Interdatabase Dependencies. Proceedings of the 2<sup>nd</sup> ACM SIGMOD International Workshop on Advances in Databases and Information Systems ADBIS-95, 27.-30.6.1995, Moskau, J. Eder, L.A.Kalinichenko (Eds.) Wshps in Computing Series, Springer
- [W06-95] Klusch, M. (1995): Utilitarian coalition formation between information agents for a cooperative discovery of interdatabase dependencies. Proceedings of the 19<sup>th</sup> German Conference on Artificial Intelligence KI-95, Workshop on Organizational Aspects in Multiagent Systems, 11.-13.9.1995, Bielefeld
- [W05-95] Klusch, M. (1995): Cooperative Recognition of Interdatabase Dependencies. Proceedings of the International Workshop on Description Logics DL-95, 2.-3.6.1995, Rom Italy), Rap. 0795, Dipartimento di Informatica, University of Rome, pp. 72-79
- [W04-95] Klusch, M. (1995): Towards a federative cell system FCSI for a context-based recognition of interdatabase dependencies. Proceedings of the 18<sup>th</sup> International ETCE-95 Symposium on Knowledge-based Systems in Engineering Applications, 29.1.- 1.2.1995, Houston (USA), ASME PD-Vol. 67, pp. 233-24
- [W03-94] Klusch, M. (1994): Using a cooperative agent system FCSI for a context-based recognition of interdatabase dependencies. . Proceedings of the CIKM-94 International Workshop on Intelligent Information Agents, 2.12.1994, Gaithersburg (USA)
- [W02-94] Klusch, M.: Towards a federative cell system FCSI for a context-based recognition of interdatabase dependencies, Proceedings of the 6<sup>th</sup> GI-Workshop "Grundlagen von Datenbanken", Bad Helmstedt, September 1994, Bericht TR-94-01, U Magdeburg, 87-91, 1994
- [W01-94] Klusch, M. (1994): Using a hybrid neural system for astronomical classification tasks. Proceedings of the OAGM/DAGM Symposium 'Mustererkennung' ME-94, 21.9.-24.9.1994, Wien, TU Wien Informatik XPress 5, pp.281-287

## 11.7 Technical Reports

- [R03-04] Siekmann, J.; Fischer, K.; Hutter, D.; Klusch, M.; Stephan, W. (2004): Security in Mobile Multiagent Systems. Final Project Report BMBF-FKZ 01 IW A01, DFKI Saarbrücken, Germany.
- [R02-98] Sycara, K.; Lu, J.; Klusch, M. (1998): Interoperability among Heterogeneous Software Agents on the Internet. Technical Report CMU-RI-TR-98-22, Carnegie Mellon University, Robotics Institute, Pittsburgh, USA
- [R01-93] Klusch, M. (1993): HNS – A Hybrid Neuronal System for Classification of Stars. Universität Kiel, Institut für Informatik und Praktische Mathematik, Technischer Bericht 9308, Kiel, Germany

## 12. Scientific Talks

The list of my scientific talks is structured into (a) non-published talks, that are invited talks given at different institutions and conferences without associated publication, and (b) published talks, that are regular conference talks with respective publication.

Talks which I have given at the DFKI scientific advisory board and other internal meetings of DFKI, project review meetings, as well as internal business project related scientific presentations at companies are not listed.

### 12.1 Invited Talks

1. Intelligent Service Coordination in the Future Internet.  
Invited Colloquium Talk, Department of Computer Science and Engineering, University of South Carolina, Columbia, USA, 11.1.2012
2. Agents and Semantics for Intelligent Simulations in the 3D Internet.  
Center for Complex Software Systems and Services, Swinburne University, Melbourne, Australia, 30.4.2011
3. Agents and Semantics for Intelligent Simulations in the 3D-Internet.  
Keynote Talk, 5<sup>th</sup> International Conference on Semantic and Digital Media Technology (SAMT), Saarbrücken, Germany, 1.12.2010
4. ISReal: Intelligent Simulation of Realities in the 3D Internet.  
CSD Talk, University of Koblenz-Landau, Germany, 26.8.2010
5. ISReal: Semantics, Agents and Services for the Future 3D-Internet.  
Keynote Talk, 8<sup>th</sup> International Workshop on Service-Oriented Computing: Agents, Semantics and Engineering (SOCASE), Toronto, Canada, 11.5.2010
6. Agents and Semantics: Empowering the Internet of Services.  
KSRI Speaker Series, Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany, 13.1.2010
7. Semantic Service Retrieval: Tools, Evaluation and Challenges.  
Keynote Talk at European Conference on Web Services ECOWS – Semantic Web Services Challenge Workshop, Eindhoven, The Netherlands, 8.11.2009
8. Agents and Semantics: Empowering the Internet of Services.  
Distinguished CETINIA Lecture Series, Universidad Rey Juan Carlos, Madrid, Spain, 24.11.2009

9. Agent-Based Semantic Service Coordination.  
CS3 Seminar, Center for Complex Software Systems and Services, Swinburne University, Melbourne, Australia, 24.4.2009
10. Agent-Based Semantic Service Coordination.  
Habilitation Talk, University of the Saarland, Saarbruecken, Germany, 16.2.2009.
11. Fraunhofer Institute for Information and Data Processing (IITB), Symposium on Agent-Based Computing, Karlsruhe, June 19, 2008
12. 2<sup>nd</sup> German Conference on Multi-Agent System Technologies MATES 2004, Erfurt, Germany, September 29, 2004
13. University of Trento, Department of Information and Communication Technology  
Trento, Italy, Januar 13, 2003
14. University of Twente, Computer Science Department, Enschede, The Netherlands,  
April 15, 2003
15. International University of Bremen, Bremen, Germany, April 3, 2003
16. University of Osnabrück, Osnabrück, April 1, 2003
17. University of Trento, Department of Information and Communication Technology,  
Trento, Italy, July 12, 2002.
18. Danube University Krems, Austria, December 11, 2001
19. University of Aberdeen, Computer Science Department, Aberdeen, Scotland (UK),  
May 5, 2000
20. Free University of Berlin, Institut für Informatik, Berlin, Germany, October 11, 2001
21. Keynote Talk at International Conference IMPACT-99, Seattle, USA, Nov 2, 1999
22. Invited Expert Talk, European Commission, ISPO Meeting. Brussels, Belgium, June  
28, 1999
23. University of Karlsruhe, AIFB Karlsruhe, Germany, June 25, 1999
24. Deutsches Forschungszentrum für Künstliche Intelligenz, Saarbrücken, Germany,  
October 12, 1998

25. ETH Zürich, Database and Information Systems, Zürich, Switzerland, July 10, 1998
26. ETH Zürich, Computer Science, Zürich, Switzerland, July 9, 1998
27. Keynote Talk, 1<sup>st</sup> German Joint Workshop on DAI, Databases and Information Retrieval (VDI) Chemnitz, Germany, April 17, 1998
28. Arizona State University, Electrical Engineering and Computer Science, Tempe/Phoenix AZ, USA, February 5, 1995
29. University of Cambridge, Institute for Astronomy and Astrophysics. Cambridge, UK, September 28, 1994
30. Technical University of Vienna, Department for Economy and Business. Vienna, Austria, April 27, 1994

## 12.2 Conference Talks

1. ISReal: Open Platform for Semantic-Based Simulation in the 3D-Internet. 9<sup>th</sup> International Semantic Web Conference, Shanghai, China, 9.11.2010
2. iSeM: Approximated Reasoning for Adaptive Hybrid Selection of Semantic Services. 4<sup>th</sup> IEEE International Conference on Semantic Computing (ICSC), Pittsburgh, USA, 23.9.2010
3. OWLS-MX3: Adaptive Hybrid Semantic Matchmaker for OWL-S Services. 3<sup>rd</sup> International Workshop SMR2 der International Semantic Web Conference (ISWC), Washington DC, USA, 25.10.2009
4. Adaptive Hybrid Semantic Selection of SAWSDL Services. 6th European Semantic Web Conference (ESWC), Heraklion, Greece, 2.5.2009
5. Quantum Service Selection. International IEEE/ACM International Conference on Intelligent Agent Technology (IAT), Sydney, Australia, 12.12..2008
6. Toward Quantum Matchmaker Agents. International IEEE/ACM International Conference on Intelligent Agent Technology (IAT), Sydney, Australia, 10.12.2008
7. Model-Driven Semantic Web Service Matchmaking for Collaborative Business Processes. International IEEE/ACM International Conference on Intelligent Agent Technology (IAT), Sydney, Australia, 10.12.2008

8. Model-driven Approach to the Integration of Multiagent Systems and Semantic Web Services. International IEEE/ACM International Conference on Intelligent Agent Technology (IAT), Sydney, Australia, 12.12.2008
9. Semantic Web Service Selection with SAWSDL-MX. 2<sup>nd</sup> International Workshop on Semantic Matchmaking and Resource Retrieval (SMR2) at ISWC, Karlsruhe, Germany, 27.10.2008
10. Model-Driven Semantic Web Service Matchmaking for Collaborative Business Processes. 2<sup>nd</sup> International Workshop on Semantic Matchmaking and Resource Retrieval (SMR2) at ISWC, Karlsruhe, Germany, 27.10.2008
11. Hybrid Semantic Web Service Retrieval: A Case Study with OWLS-MX. 2<sup>nd</sup> IEEE International Conference on Semantic Computing (ICSC), Santa Clara, USA, 5.8.2008
12. Hybrid Semantic Web Service Matchmaking with OWLS-MX: Benefits and Pitfalls. 6<sup>th</sup> International Semantic Web Conference (ISWC), Busan, Korea, 11.12.2007
13. Deployed Semantic Services for the Common User of the Web: A Reality Check. 2<sup>nd</sup> IEEE International Conference on Semantic Computing (ICSC), Santa Clara, USA, 5.8.2008
14. Semantic Web Services: A Preliminary Reality Check. 6<sup>th</sup> International Semantic Web Conference (ISWC), Busan, Korea, 11.12.2007
15. Fast Composition Planning of OWL-S Services and Application. 4<sup>th</sup> IEEE European Conference on Web Services, Zurich, Switzerland, 2006
16. WSMO-MX: A Logic Programming Based Hybrid Service Matchmaker. 4<sup>th</sup> IEEE European Conference on Web Services, Zurich, Switzerland, 2006
17. Fast Dynamic Re-Planning of Composite OWL-S Services. 2<sup>nd</sup> IEEE International Workshop on Service Composition, Hongkong, China, 2006
18. Evaluation of Service Composition Planning with OWLS-XPlan. 2<sup>nd</sup> IEEE International Workshop on Service Composition, Hongkong, China, 2006
19. RS2D: Fast Adaptive Search for Semantic Web Services in Unstructured P2P Networks. 5<sup>th</sup> International Semantic Web Conference, Athens, USA, 2006
20. Risk Driven Semantic P2P Service Retrieval. 6<sup>th</sup> IEEE International Conference on P2P Computing, Cambridge, UK, 6.9.2006

21. Hybrid Semantic Web Service Retrieval with OWLS-MX. 5<sup>th</sup> International Conference on Autonomous Agents and Multi-Agent Systems, Hakodate, Japan, 2006
22. Secure Web Service Composition. 1<sup>st</sup> International workshop on Privacy and Security of Agent-Based Collaborative Environments (PSACE), Hakodate, Japan, 2006
23. Semantic Web Service Composition Planning with OWLS-XPlan. 1<sup>st</sup> International AAI Fall Symposium on Agents and the Semantic Web, Arlington VA, USA, 2005
24. Coordination of Quantum Internet Agents. 4<sup>th</sup> International Conference on Autonomous Agents and Multiagent Systems, Utrecht, The Netherlands, 2005
25. Privacy-Preserving Coalition Formation Among Rational Service Agents. 3<sup>rd</sup> German Conference on Multi-Agent System Technologies, Koblenz, Germany, 2005
26. CASA: A Distributed Holonic Multiagent Architecture for Timber Production. 1<sup>st</sup> International Conference on Autonomous Agents and Multi-Agent Systems, Bologna, Italy, 2002
27. An agent-based mobile e-commerce service platform for forestry and agriculture. 2<sup>nd</sup> Asia-Pacific Conference on Intelligent Agent Technology, Maebashi, Japan, 2001.
28. Coalition Formation in a Power Transmission Planning Environment. 2<sup>nd</sup> International Conference on Practical Applications of Multi-Agent Systems, London, UK, 1997
29. A Polynomial Kernel-Oriented Coalition Algorithm for Rational Information Agents. 2<sup>nd</sup> International Conference on Multi-Agent Systems, Kyoto, Japan, 1996
30. Cooperative Recognition of Interdatabase Dependencies. International Workshop on Description Logics, Rome, Italy, 1995
31. FCSI: Towards context-based recognition of interdatabase dependencies. 18<sup>th</sup> International ETCE, Symposium on Knowledge-based Systems in Engineering Applications, Houston, USA, 1995
32. Coalition-based cooperation between intelligent agents for a contextual recognition of interdatabase dependencies. 1<sup>st</sup> International Conference on Multi-Agent Systems, San Francisco, USA, 1995
33. Using a hybrid neural system for astronomical classification tasks. OAGM/DAGM International Joint Symposium on Pattern Recognition, Vienna, Austria, 1994

34. HNS: a hybrid neural system and its use for the classification of stars. IEEE International Joint Conference on Neural Networks, Nagoya, Japan, 1993

## 13. Teaching Experience

My teaching experience builds upon courses, lectures and seminars I have given at the universities of Kiel, Amsterdam and Saarbrücken, as well as tutorials at conferences and summer schools.

### 13.1 Courses

1. In-Depth Course C6139 **“Intelligent Information Agents for the Internet and Web”** (2 hrs per week). Computer Science Department of the University of the Saarland, Saarbrücken, Germany; Summer semester 2005. Oral exams.  
Syllabus: <http://www.dfki.de/~klusch/I2A-UDS-2005.html>  
Avg. number of attendees : 76
2. In-Depth Course C6132 **“Intelligent Information Agents for the Internet and Web”** (2 hrs per week) at the computer science department of the University of the Saarland, Saarbrücken, Germany; Summer semester 2004. Oral exams.  
Syllabus: <http://www.dfki.de/~klusch/I2A-UDS-2004.html>  
Avg. number of attendees : 42
3. Special Course **“Information Agent Technology I”** (6 hrs per week, block) at the department for AI of the Free University of Amsterdam, The Netherlands; Summer semester 2000. Plus exercises (2hrs per week).  
Syllabus: <http://www.cs.vu.nl/~iia>  
Avg. number of attendees : 35
4. Special Course **“Information Agent Technology I”** (6 hrs per week, block) at the department for AI of the Free University of Amsterdam, The Netherlands; Summer semester 2001. Plus exercises (2hrs per week).
5. Special Course **“Information Agent Technology II”** (6 hrs per week, block) at the department for AI of the Free University of Amsterdam, The Netherlands; Fall semester 2000. Plus exercises (2hrs per week). Syllabus: <http://www.cs.vu.nl/~iia>
6. Special Course **“Information Agent Technology II”** (6 hrs per week, block) at the department for AI of the Free University of Amsterdam, The Netherlands; Fall semester 2001. Plus exercises (2hrs per week).
7. Basic Course **“Einführung in die Informatik”** (4 hrs per week) at the Chemnitz University of Technology, Germany; Summer semester 1997. Plus exercises (2 hrs per week). Part 1: Grundlagen der Informatik, Part 2: Höhere Programmiersprachen und PASCAL, Part 3: Betriebssysteme, Part 4: Datenbanksysteme, Part 5: Internet: Werkzeuge und Dienste.

## 13.2 Lectures

1. Lecture "**Intelligente Agenten für das Internet der Dienste**" (2hrs), part of the CSD Joint Course "Ringvorlesung zu Perspektiven der Informatik", 21.11.2011, at the University of the Saarland, Saarbrücken, Germany.
2. Lecture "**Intelligente Agenten für das Internet der Dienste**" (2hrs), part of the CSD Joint Course "Ringvorlesung zu Perspektiven der Informatik", 13.12.2010, at the University of the Saarland, Saarbrücken, Germany.
3. Visiting Professor Lecture "**Agents and Semantics: Empowering the Internet of Services**" (1hr), 29.4.2009, TU Swinburne in Melbourne (Australia), ICT Faculty.
4. Inaugural Lecture "**Agents and Semantics: Empowering the Internet of Services.**" 15.7.2009, University of the Saarland, Saarbruecken, Germany.
5. Lecture "**Intelligent Information Agents**" (2hrs), 8.2.2007, part of the Course „Künstliche Intelligenz“ of Prof. Dr. Jörg Siekmann at the University of the Saarland, Saarbrücken, Germany
6. Lecture CS650 "**Intelligente Informationsagenten**" (2hrs), part of the CSD Joint Course "Ringvorlesung zu Perspektiven der Informatik", 30.10.2006, at the University of the Saarland, Saarbrücken, Germany.
7. Lecture "**Intelligente Informationsagenten**", part of the CSD Joint Course "Ringvorlesung zu Perspektiven der Informatik", 1.2.2006, at the University of the Saarland, Saarbrücken, Germany.
8. Lecture "**Searching the Web via Hyperlink Analysis**". University of Osnabrück, Computer Science Department. April 1, 2003
9. Lecture "**Föderierte Datenbanksysteme**" (2 hrs) at the department of systems for information management of the Christian-Albrechts-University of Kiel, Germany; Summer semester 1994.

### 13.3 Tutorials

1. Tutorial *Intelligent Information Agents: Key Enabling Technologies, Systems, and Challenges*. Presented at 5<sup>th</sup> European Agent Systems Spring School (EASSS 2003) Barcelona, Spain, February 11, 2003
2. Tutorial *Intelligent Information Agents: Key Enabling Technologies, Systems, and Challenges*. Presented at 4<sup>th</sup> European Summer School on Agent-Based Systems (EASSS 2002) Bologna, Italy, July 9, 2002
3. Tutorial *Intelligent Information Agents*. Presented at ECCAI 2001 Summer School. Prague, Czech Republic, July 12, 2001
4. Tutorial *Information Agent Systems*. Presented at 2<sup>nd</sup> European Agent Systems Summer School (EASSS 2000), Saarbrücken, Germany, August 15, 2000
5. Tutorial *Information Agent Technology for the Internet: State of the Art and Challenges*. Presented at 3rd Intl. Conference on Autonomous Agents (Agents-2000). Barcelona, Spain, June 3, 2000
6. Tutorial *Intelligent Information Agents on the Internet*. Presented at 4th Intl. Conference on Practical Application of Intelligent Agents and Multi-Agent Technology (PAAM-99) London, UK, April 19, 1999. Together with Pete Edwards, University of Aberdeen, UK
7. Tutorial *Cooperative Information Agents – State of the Art and Challenges*. Presented at International Symposium on Advances in Database and Information Systems (ADBIS-99), Maribor, Slovenia, September 13, 1999

## 13.4 Seminars

1. Seminar on **Semantic Web Technologies**. Graduate level; University of the Saarland, Computer Science Department; Winter semester 2011/2012  
<http://www.dfki.de/~klusch/semweb-seminar-ws11/>
2. Seminar on **Semantic Web Services**. Graduate level; University of the Saarland, Computer Science Department; Summer semester 2008.  
<http://www.dfki.de/~klusch/seminar-SWS06/>
3. Seminar on **Semantisches Web und Agenten (Semantic Web and Agents)**. Graduate level; University of the Saarland, Computer Science Department; Fall semester 2006/2007. <http://www.dfki.de/~klusch/seminar-SWS06/>
4. Seminar on **Spieltheoretische Kooperationsverfahren (Game-Theoretic Cooperation Methods)**. Graduate level; University of the Saarland, Computer Science Department; Fall semester 2006/2007.  
<http://www.dfki.de/~klusch/seminar-SKV06/>
5. Seminar C500 on **Semantic Web Services and Agents**. Graduate level; University of the Saarland, Computer Science Department; 3hrs per week; Fall semester 2005/2006. <http://www.dfki.de/~klusch/seminar-ws2005/index.html>
6. As Phd Student (Research Assistant), I have been also involved in the execution of seminars on **selected topics in the area of advanced database and knowledge based systems**; (2hrs per week) at the computer science department of the Christian-Albrechts-University of Kiel, Germany, during all semesters in the years of 1992 to 1996.  
In addition, I have conducted exercises of basic courses on computer science (Informatik I - IV) and database systems at the computer science department of the Christian-Albrechts-University of Kiel, Germany, in all semesters of the years 1992 to 1996.

## 14. Scientific Advisory of Students

As part of my research and teaching activities at different universities in Kiel, Amsterdam and Saarbrücken, I have been involved in supervising bachelor, master and doctoral students as a scientific advisor of their work. Further, I have been invited from other universities to serve as a member of PhD committees.

### 14.1 Doctoral Students

1. Xiaoqi Cao: *Flexible Semantic P2P Search and Composition in the 3D Internet*. Universität des Saarlandes, FR Informatik. (ongoing)
2. Stefan Warwas: *Model-Driven Agent Systems Development*. Universität des Saarlandes, FR Informatik, Co-Advisor; Supervisor: Prof. P. Slusallek. (ongoing)
3. Bastian Blankenburg. *Flexible and Trusted Coalition Forming Between Service Agents in the Internet*. Universität des Saarlandes, FR Informatik (ongoing)
4. Josenildo Costa da Silva. *Privacy Preserving Distributed Data Mining*. Universität des Saarlandes, FR Informatik, DAAD-CAPEs. (ongoing)
5. Jan Richter: *Decision Strategies for Automated Negotiation with Limited Knowledge*. Swinburne University of Technology, ICT Faculty. Co-Advisor. Advisor: Prof. R. Kowalczyk. 2007 – 2011 (finished).
6. Safdar Ali: *Semantic Interoperability of Ambient Intelligent Medical Devices and e-Health Systems*. Universität des Saarlandes, Fraunhofer Institut für Biomedizinische Technik (IBMT). Advisor; Supervisors at Fraunhofer IBMT: Prof. Günther Fuhr, Stephan Kiefer, Supervisor at MPI: Prof. Gerhard Weikum. 2007 - 2010 (finished)
7. Andreas Gerber. *Flexible Cooperation Between Autonomous Agents in Dynamic Environments*. Universität des Saarlandes, FR Informatik. Advisor; Supervisor: Prof. J. Siekmann, 2000 - 2004 (finished)
8. Helena Maria Pereira Nunes. *Adaptive Semantic Web Service Matchmaking*. Universität des Saarlandes, FR Informatik. Advisor. Supervisor: Prof. J. Siekmann. DAAD-CAPEs 2004 / 2005.
9. Rene Schubotz. *Semantics and 3D Technologies for Functional Validation of Digital Mockups*. Universität des Saarlandes, FR Informatik, Jointly with EADS Munich. Advisor; Supervisor: Prof. P. Slusallek. 2009 - 2011

### PhD Committee Memberships:

1. Safdar Ali: *Semantic Interoperability of Ambient Intelligent Medical Devices and e-Health Systems*. Universität des Saarlandes, Max-Planck-Institut für Informatik Saarbrücken, 2009.
2. Xiaofeng Zhang. *A Model-based Approach for Distributed Data Mining*. Honkong Baptist University, Computer Science Department, Hongkong, China, 2007.
3. David Sanchez Ruenes. *Domain Ontology Learning From The Web*. Universitat Politecnica de Catalunya, Barcelona, Spain, 2007.
4. Andreas Gerber. *Flexible Cooperation Between Autonomous Agents in Dynamic Environments*. Universität des Saarlandes, 2004.
5. Miquel Montaner Rigall. *Recommender Agents Based on Case-Based Reasoning and Trust*. Universitat de Girona, Spain, 2003.
6. Christian Gerber. *Self-Adaptation and Scalability in Multi-Agent Societies*. Universität des Saarlandes, 2000

### 14.2 Diploma, Master, and Bachelor Students

1. Emre Göynügür: *Mobile Cloud-Based Semantic Service Planning*. Universität des Saarlandes, FR Informatik, Master. (ongoing)
2. Andreas Frische: *Integrierte Entwicklung von intelligenten Avataren der ISReal-Plattform*. Universität des Saarlandes, FR Informatik, Bachelor. (ongoing)
3. Martin Schütz: *Webdienstorchestrierung für flexible Steuerung von Produktionsprozessen*. TU Kaiserslautern, Bachelor; Co-Advisor, Supervisor: Prof. A. Dengel. (finished), 2011.
4. Martin Vasileski: *iSmoogle: An Intelligent Search Engine for Semantic Web Services*. Universität des Saarlandes, FR Informatik, Master (ongoing).
5. Alexander Marcus Uwe Wickert: *Semantische Dienstselektion für modellgetriebene Geschäftsprozesse in jABC: Analyse, Integration und Evaluation*. Co-Supervisor with Prof. Tiziana Margaria, Universität Potsdam, Master, (finished), 2010.
6. Stefan Nesbigall. *Quantum Coordination of Multiagent Systems*. Universität des Saarlandes, FR Informatik, Master, (finished) 2007.

7. Christine Walter. *COALA-3: Simulation of Strategic Trust and Deceit in Coalition Negotiations*. Universität des Saarlandes, FR Informatik, Master, (finished), 2009.
8. Can Kayali. *Hybrid partial OWL ontology matching for service selection in the semantic web*. Universität des Saarlandes, Master (finished), 2008. Advisor; Supervisor: Prof. J. Siekmann.
9. Kai-Uwe Renner. *Heuristische on-line Kompositionsplanung von semantischen Webdiensten mit OWLS-Xplan+ und Anwendungen* [Heuristic online semantic Web service composition planning with OWLS-Xplan+]. Universität des Saarlandes, FR Informatik, Diplom. Co-Advisor with Dr Andreas Gerber; Supervisor: Prof. J. Siekmann. (finished), 2007
10. Johannes Wender. *XPlanA: Situiert adaptives Offlineplanen für Agenten mittels maschineller Lernverfahren* [Situating adaptive planning with XplanA]. Universität des Saarlandes, FR Informatik, Diplom. Co-Advisor with Dr. Andreas Gerber and Dr. Thorsten Maier. Supervisor: Prof. J. Siekmann. (finished) 2007.
11. Frank Kaufer. *WSMO-MX: Logic programming based hybrid semantic web service matchmaker*. Universität des Saarlandes, FR Informatik, Diplom. Advisor; Supervisor: Prof. J. Siekmann. (finished) 2007.
12. Rene Schubotz. *Programming of quantum matchmaker agents*. Universität des Saarlandes, FR Informatik, Diplom. Advisor; Supervisor: Prof. J. Siekmann. (finished) 2007.
13. Oliver Fourman. *OWLS2WSDL: Tool and experimental analysis*. HTW des Saarlandes & Universität des Saarlandes, FH Master, Co-Supervisor: Prof. Güttler (finished) 2007.
14. Zhiguo Xing. *Semantic web service discovery: A reality check*. Universität des Saarlandes, FR Informatik, Master. Advisor; Supervisor: Prof. J. Siekmann. (finished) 2007.
15. Ulrich Basters. *RS2D: Risikobasierte semantische Suche nach OWL-S Diensten in unstrukturierten P2P-Netzen*. [RS2D: Risk-Based OWL-S service discovery in unstructured P2P Networks]. Universität des Saarlandes, FR Informatik, Diplom. Advisor; Supervisor: Prof. J. Siekmann. (finished) 2006
16. Benedikt Fries. *Hybrid OWL-S Semantic Web Service Retrieval with OWLS-MX*. Universität des Saarlandes, FR Informatik, Diplom. Advisor; Supervisor: Prof. J. Siekmann. (finished) 2006

17. Marco Schwingel. *Aspektorientierte Modellierung und Komposition von semantischen Webdiensten in OWL-S* [Aspect-oriented modelling and composition of semantic Web services in OWL-S]. Universität des Saarlandes, FR Informatik, Diplom. Advisor; Supervisor: Prof. J. Siekmann. (finished) 2005
18. Suleman Butt. *Interleaved Semantic Web Service Execution and Composition Planning*. Universität des Saarlandes, FR Informatik, Master. Advisor; Supervisor: Prof. J. Siekmann. (finished) 2005
19. Bastian Blankenburg. *Unschärfe Koalitionen von Informationsagenten im Internet*. Universität des Saarlandes, FR Informatik, Diplom. Advisor; Supervisor: Prof. J. Siekmann. (finished) 2004
20. Wooseok Park. *Dynamische und vertrauensbasierte Koalitionen von Informationsagenten*. Universität des Saarlandes, FR Informatik, Diplom. Advisor; Supervisor: Prof. J. Siekmann. (finished) 2004.
21. Patrick Frotscher. *Ein Agentenbasierter Auktionsserver für Mobilen Elektronischen Handel im Internet* [Agent-based auction server for mobile timber trading in the Internet]. Universität des Saarlandes, FR Informatik, Diplom. Advisor; Supervisor: Prof. J. Siekmann. (finished) 2003
22. Nils Kammenhuber. *Grafische Oberfläche eines Agentenbasierten Informations- und Handelsnetzwerks* [Graphical User Interface for An Agent-based Information and Trading Network]. Universität des Saarlandes, Diplom. Advisor; Supervisor: Prof. J. Siekmann. (finished) 2002
23. René Schubert. *Eine Nutzerschnittstelle für kooperierende Informationsagenten* [User interface for cooperative information agents]. Technische Universität Chemnitz, FR Informatik, Diplom, Supervisors: Prof. W. Benn, Dr. M. Klusch; (finished) 1998
24. Hui Gao. *TEWIS: Implementierung eines Terminologischen Wissensrepräsentations- und Inferenzsystems* [A terminological knowledge representation and reasoning system]. Christian-Albrechts-Universität zu Kiel, FR Informatik, Diplom. Advisor; Supervisor: Prof. P. Kandzia. (finished) 1997
25. Olaf Scheew. *IDEAS: Implementierung einer Interaktiven Entwicklungsumgebung für Agentensysteme* [An Interactive Development Environment for Agent Systems], Christian-Albrechts-Universität zu Kiel, FR Informatik, Diplom. Advisor; Supervisor: Prof. P. Kandzia. (finished) 1996

26. Dirk Görtzen. *Vergleich und Implementierung von Ähnlichkeitsrelationen auf Basis des EER-Datenmodells* [Comparison and Implementation of Similarity Relations Based on the EER Data Model]. Christian-Albrechts-Universität zu Kiel, FR Informatik, Diplom. Advisor; Supervisor: Prof. P. Kandzia. (finished) 1995
27. Jameleddine Ben Jemaa. *Entwurf und Implementierung einer graphischen Oberfläche für den Kieler Simulator neuronaler Netzwerke KNNS*. Christian-Albrechts-Universität zu Kiel, FR Informatik, Diplom. Advisor; Supervisor: Prof. P. Kandzia. (finished) 1995
28. Hisham Sobeh. *Analytische Untersuchung zu den Lernalgorithmen des Kieler Simulators für neuronale Netze KNNS*. Christian-Albrechts-Universität zu Kiel, FR Informatik, Diplom. Advisor; Supervisor: Prof. P. Kandzia. (finished) 1994
29. Weijia Shao: *RS2D 3.0: Semantic service discovery in hybrid P2P networks*. Universität des Saarlandes, FR Informatik, Bachelor/Master.

## 15. List of Personal Referees

### **Professor Jörg Siekmann**

German Research Center for Artificial Intelligence  
Stuhlsatzenhausweg 3, Saarbrücken, Germany  
E-Mail: [Joerg.Siekmann@dfki.de](mailto:Joerg.Siekmann@dfki.de), Phone: +49 681 85775 5275 / +49 175 290 1872

### **Professor Michael Huhns**

University of South Carolina  
Center for Information Technology  
Columbia, SC 29208, USA  
E-Mail: [huhns@sc.edu](mailto:huhns@sc.edu), Phone: +1 803 777 5921

### **Professor Ryszard Kowalczyk**

Swinburne University of Technology  
ICT Faculty, Center for Computing and Engineering Software Systems  
John Street, Hawthorn (Melbourne), Victoria 3122, Australia  
E-Mail: [rkowalczyk@swin.edu.au](mailto:rkowalczyk@swin.edu.au) Phone: +61 3 9214 5834, +61 422667504

### **Professor Gerhard Weikum**

Max-Planck Institute for Informatics (MPII),  
Department for Databases and Information Systems,  
Universität des Saarlandes, Campus E1.4, 66123 Saarbrücken, Germany  
E-Mail: [weikum@mpi-inf.mpg.de](mailto:weikum@mpi-inf.mpg.de) Phone: +49 681 9325 500

### **Professor Rudi Studer**

Karlsruhe Institute of Technology (KIT)  
Institutes AIFB & Karlsruhe Service Research Institute (KSRI)  
Building 11.40, D-76128 Karlsruhe, Germany  
E-Mail: [rudi.studer@kit.edu](mailto:rudi.studer@kit.edu) Phone: +49 721 608 43923

### **Professor Rainer Unland**

University of Duisburg-Essen  
Institute for Computer Science and Business Information Systems  
Schuetzenbahn 70, 45117 Essen, Germany  
E-Mail: [Rainer.Unland@icb.uni-due.de](mailto:Rainer.Unland@icb.uni-due.de), Phone: +49 201 183 3421

### **Professor Frank van Harmelen**

Vrije Universiteit Amsterdam  
AI Department, Division of Mathematics and Computer Science  
de Boelelaan 1081a, 1081HV Amsterdam, The Netherlands  
E-Mail: [Frank.van.Harmelen@cs.vu.nl](mailto:Frank.van.Harmelen@cs.vu.nl), Phone: +31 20 598 7731

### **Professor Katia Sycara**

Carnegie Mellon University  
Robotics Institute  
5000 Forbes Ave, Pittsburgh, PA 15213, USA  
E-Mail: [katia+@cs.cmu.edu](mailto:katia+@cs.cmu.edu), Phone: +1 412 268 8825, Fax: +1 412 268-5569