

Curriculum vitae

Name: **Javier.**

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1. Education

- **Ph.D. Degree in Artificial Intelligence**, Artificial Intelligence Ph.D. program, Departament de Llenguatges i Sistemes Informàtics, Universitat Politècnica de Catalunya. (April 2003).
 - *Concentrations*: Machine Learning, Case-Based Reasoning, Multi-Agent Systems, Agent Theories.
 - *Dissertation*: “**The role of Norms and Electronic Institutions in Multi-Agent Systems applied to complex domains. The HARMONIA framework**”. Mark: *Cum Laude*
 - *Advisor*: Dr. Ulises Cortés
- **Engineer Degree in Computer Science**¹, Facultat d’Informàtica de Barcelona, Universitat Politècnica de Catalunya. (July 1999).
 - *Concentrations*: Artificial Intelligence, Database Design and Management, Computer Graphics.
 - *Thesis*: “**Agencia Cultural Electrónica**” (Electronic Leisure Recommender)². Mark: 10 (of 10) with honours.
 - *Advisor*: Dr. Ramon Sangüesa.

¹ The Engineer Degree in Computer Science is a spanish 5-year degree that is equivalent to a Masters’ Degree in Computer Science

² In this Masters’ Thesis an agent-mediated recommender system was build in order to create a web service tailored by the user preferences.

2. Languages

- Fluent in **English**, **Spanish** and **Catalan**
- Can read and speak some **Galego-Portuguese** and **Italian**.
- Currently learning **Dutch**

3. Research

3.1 Research positions

- **Postdoc Researcher**, PROVENANCE project. Present. Knowledge Engineering and Machine Learning Group, Universitat Politècnica de Catalunya.
- **Postdoc Researcher assistant**. 2003-2005. Institute of Information and Computing Sciences, Universiteit Utrecht.
- **Research assistant**, A-TEAM project (Advanced Training and Environmental Management), a European funded project of the 5th IST framework (IST-1999-10176). 2000-2003. Knowledge Engineering and Machine Learning Group, Universitat Politècnica de Catalunya.
- **Research assistant**, Teleauto project. 1999-2000. Knowledge Engineering and Machine Learning Group, Universitat Politècnica de Catalunya.

3.2 Research experience

- Design and development of a *Recommender System* for web pages by means of a *Multi-Agent Architecture* (programmed in Java). This research was part of the work done for the Masters' Thesis "**Agencia Cultural Electrónica**". Research published in WARS 2000 [1] and [31].
- Design of a generic agent-based architecture for *Recommender Systems*. This research was done during the first year of Ph.D. courses (from September 1999 to July 2000). This research has no publications, but it is the origin for an agent-mediated architecture to support collaborative work (see below).
- Design of an agent-mediated CSCW system (Computer Support for Collaborative Work, where the content shared by the users is proactively recommended to them. This research was done during the second year of Ph.D. courses (from September 2000 to July 2001). Part of this research has been published in CCIA 2001 [6].
- Design of an agent-mediated *Electronic Institution* for the appropriate allocation of human tissues for transplantation purposes. This research began during the first year of Ph.D.

courses (from September 1999 to December 2000). Research published in [2] [4] [5] [24] [33], [37].

- Design of an *Agency* to support the coordination tasks in a Hospital Transplant Unit, by means of a *Multi-Agent Architecture*. This research began during the first year of Ph.D. courses (from September 1999 to December 2000). Research published in [3] [23] [28].
- Design and development of an *Object-Oriented Case-Based Reasoning* system in Java. The research has been done as part of the work for the IST European project A-TEAM, since march 2000. Research published in [11] [12].
- Formal design and development of *Electronic Institutions* (that we call *e-Organizations*) to rule the behaviour of *Multi-Agent Systems* applied to complex domains where norms and regulations should be followed. This work is a generalisation of the work done in the human transplant domain, and has been done since January 2001. Part of the work lead to the Ph.D. dissertation “**The role of Norms and Electronic Institutions in Multi-Agent Systems applied to complex domains. The HARMONIA framework**”. Research published in [8], [9], [10], [18], [19], [21], [22], [25], [27], [32], [38] and [39]. More publications in progress.
- Applications of Machine Learning and Agent Coordination techniques to Robots and multi-Robot Systems, and for human-robot coordination. Research published in [13], [16], [17]. More publications in progress.

3.3 Involvement in Funded Projects

- January – December 2000: Researcher in the VOLCAN project (“Sistema Inteligente de ayuda a la toma de decisiones para la predicción y minimización del impacto de la actividad volcánica”). Funded by Mexico’s CONACYT (R31971-A). Coordinator: Dr. Ulises Cortés
- February 2000 – May 2003: Researcher and developer in the A-TEAM project (“Advanced Training System for Emergency Management”). Funded by the IST program of the European Commission (IST-1999-10176). Coordinator: Dr. Kurt Fedra.
- May 2003 – April 2005: Researcher, ANITA project (Administrative Normative Information Transaction Agents). Funded by the Dutch Research & Science Association (NWO). Coordinator: Dr. Kees de Vey Mestdagh.
- May 2003 – April 2005: EU-LAT project (Binding EU-Latin-American IST Research Initiatives for Enhancing Future Co-Operation). Funded by the IST program of the European Commission (IST-2001-32792). Coordinator: Dr. Ulises Cortés.

3.4 Grants for courses and stays

- July 1-14th, 2001: Agentlink grant. Attendance to the European Summer School - the Advanced Course on Artificial Intelligence (ACAI'01), Prague, Czeck Republic.
- July 17th – September 17th 2001: Erasmus grant. Visiting studentship at the Department of Mathematical Sciences, University of Bath. Supervisor: Julian Padget.
- November - December 2002: Agentcities grant. Visiting studentship at the Computer Science Department, Utrecht University. Supervisor: Frank Dignum.

3.5 Awards

- ECCAI 2003 Artificial Intelligence Dissertation Award, for the dissertation “**The role of Norms and Electronic Institutions in Multi-Agent Systems applied to complex domains. The HARMONIA framework**”.

3.6 Event Organization

- Assistance in the organization of the Agentcities ID3 meeting, Barcelona, February 6-8th, 2003.
- Co-chair and co-organizer of the EULAT 2003 Workshop on e-Health, Cuernavaca, Mexico, December 1-4th 2003.
- Assistance in the organization of the Fourth International Joint Conference on Autonomous Agents and Multiagent Systems, Utrecht, the Netherlands, July 2005.
- Co-chair of the AAMAS 2005 workshop “Agents, Norms and Institutions for Regulated Multiagent Systems (ANI@REM)”, Utrecht, The Netherlands, July 2005.

3.7 Reviewer

- Third International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS 2004), New York, USA.
- Second International Workshop on Programming Multiagent Systems Languages and tools (PROMAS 2004), New York, USA.
- AAI-04 Workshop on Agent Organizations: Theory and Practice (AOTP'04), San Jose, USA. (**PC member**)
- 16th European Conference on Artificial Intelligence (ECAI 2004), Valencia, Spain.
- Fourth International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS 2005), Utrecht, The Netherlands. (**PC member**)
- AAMAS 2005 workshop “From Organizations to Organization Oriented Programming in MAS” (OOOP), Utrecht, The Netherlands. (**PC member**)

- 2nd Workshop on Multiagent Systems Development (DESMA-2005), Granada, Spain. (**PC member**)

4. Teaching

4.1 Teaching experience

- **Teacher**, Winter 2004
 - Master Program, Faculteit Wiskunde en Informatica, Utrecht University
 - Courses:
 - “AIBO Programming”
 - “Software architectures for four legged robots”
- **Teaching Assistant**, Winter 2003-Spring 2004
 - Master Program, Faculteit Wiskunde en Informatica, Utrecht University
 - Courses:
 - “e-Commerce”
 - “Virtual Markets”
- **Teacher**, Spring 2000 – Fall 2000
 - Master d’Enginyeria del Software (Software Engineering), Fundació Politècnica de Catalunya
 - Courses:
 - “Agents Software”, from January to April 2000
 - “Desenvolupament de Sistemes Multiagent” (Development of Multi-Agent Systems), from May to June 2000.
 - “Llenguatges i Eines Base” (Fundamental Languages and Tools), from October to November 2000.
 - “Programació en Java” (Programming in Java), from November 2000 to January 2001.
- **Teacher**, Fall 1999 – Fall 2000
 - Enginyeria Tècnica en Informàtica de Gestió, Universitat Oberta de Catalunya
 - Courses:
 - “Fonaments de la Programació II” (Programming Foundations II). The course is centered in software engineering topics and Object Oriented design and programming.
- **Teaching Assistant**, Fall 1996 – Spring 1999
 - Facultat d’Informàtica de Barcelona, Universitat Politècnica de Catalunya,
 - Courses:

- “*Iniciació a la Programació*” (Object-Oriented), from September 1998 to Spring 1999.
- “*Iniciació a la Programació*” (Procedural Paradigm), from September 1996 to Spring 1998.

4.2 Seminars and invited talks

- **Departament de Llenguatges i Sistemes Informàtics**, Universitat Politècnica de Catalunya, Fall 1999 (four months)
 - Seminar: “*Programació orientada a objectes en Java*” (Object-Oriented Programming in Java), given to the staff members of the Computer Science Department at UPC . The four-month seminar was given from September to December de 1999 and it included concurrent programming, Database access and networking issues in Java.
- **Lab. d’Enginyeria Química i Ambiental, LEQUIA**, Universitat de Girona. February 2002 (2 days)
 - Seminar: “*Sistemes de Suport a la Decissió*” (Decission Support Systems), given to PhD students at LEQUIA.
- **Department of Computer Science**, University of Bath, March 2004 (1 day)
 - Invited Talk: “*The Use of Norms and Electronic Institutions in Multi-Agent Systems*”, given to PhD students of the Department.
- **ECAI 04 Workshop on Agents Applied in Health Care**, Lyon, France, July 2004 (1 day).
 - Keynote: “*Normative Agents in Health Care: Uses and Challenges*”.
- **AISTA 2004 International Conference on Advances in Intelligent Systems – Theory and Applications**, Luxembourg, November 2004 (1 day)
 - Invited Talk: “*Norms, Normative Agents and Electronic Institutions for Safety and Soundness in Distributed Environments*”.

5. Other experience

- Assistance in the definition and writing of EU *Project Proposals* (A-TEAM, RIMSAT, CARREL@IST, HARMONIA), *Accompanying Measures* (EU-MEX) and *Expressions of Interest* (E-TOOLS).
- Assistance in the management of the A-TEAM Project: *Management Reports, Periodic Progress Reports*, attendance to *technical and management meetings*.
- Webmaster of the *Knowledge Engineering and Machine Learning Group* website (<http://www.lsi.upc.es/~webia/KEMLG>), from Fall 2001 to Spring 2003. The tasks performed included the creation of a new image and logo for the group.

- Webmaster of the AAMAS 2005 conference website (<http://www.aamas2005.nl/>), from Spring 2004. The tasks included the website look and feel design.
- Administrator and Editor of the magazine “L’Oasi”, a 24-page magazine done by the students in computer science. From June 1998 to July 1999.

6. Publications

a) Conferences and Workshops

- [1] R. Sangüesa, A. Vázquez, J. Vázquez-Salceda. “*Mixing Collaborative and Cognitive Filtering in Multiagent Systems*”. Workshop on Agent-Based Recommender Systems (WARS 2000), Barcelona, June 2000.
- [2] U. Cortés, A. López-Navidad, J. Vázquez-Salceda, D. Busquets, M. Nicolás, S. López, A. Vázquez, F. Vázquez i F. Caballero. “*Carrel: an Agent Mediated Institution for the Exchange of Human Tissues among Hospitals for Transplantation*”. 3rd. Catalan Conference on Artificial Intelligence (CCIA 2000). Butlletí de l’ACIA 22:15-22. Vilanova i la Geltrú, October 2000.
- [3] U. Cortés, A. López-Navidad, J. Vázquez-Salceda, D. Busquets, M. Nicolás, S. López, A. Vázquez, F. Vázquez i F. Caballero. “*UCTx: A Multi-Agent approach to model a Transplant Coordination Unit*”. 3rd. Catalan Conference on Artificial Intelligence (CCIA 2000). Butlletí de l’ACIA 22:23-28. Vilanova i la Geltrú, October 2000.
- [4] J. Vázquez-Salceda, U. Cortés. “*Using Agent-Mediated Institutions for the distribution of Human Tissues among Hospitals*”. Proceedings of the Advanced Course on Artificial Intelligence (ACAI-01), pp. 208-205. Prague, Czech Republic, July 2001.
- [5] U. Cortés, A. López-Navidad, J. Vázquez-Salceda, D. Busquets, M. Nicolás, S. López, A. Vázquez, F. Vázquez i F. Caballero. “*Carrel: an Agent Mediated Institution for the Exchange of Human Tissues among Hospitals for Transplantation*”. Presented at the Seventh International Conference on Information Networks, Systems and Technologies (ICINASTe-2001), pp. 206-213. Minsk, Bielorrussia, Octubre 2001. ISBN 985-426-692-3.
- [6] A.Vázquez-Huerta, I.Barrio, J. Vázquez-Salceda, J.M. Pujol and R. Sangüesa. “*An agent-based Collaboratory*”. 4th. Catalan Conference on Artificial Intelligence (CCIA’2001). Butlletí de l’ACIA 25:223-230. Barcelona, October 2001.
- [7] U. Cortés, R. Annicchiarico, J. Vázquez-Salceda, M. Sánchez-Marré, A. Marini, C. Caltagirone. “*e-Tools for the disabled and for the new generation of senior citizens. A position paper*”. Presented at the Workshop “Agents applied in Health Care”, Lyon, France, July 2002).
- [8] J. Vázquez-Salceda, U. Cortés, A. López-Navidad, F. Caballero, J. Padget. “*The organ allocation process: a natural extension of the Carrel Agent Mediated Electronic Institution*”. Presented at the Workshop “Agents applied in Health Care”, Lyon, France, July 2002.

- [9] J. Vázquez-Salceda, U. Cortés, J. Padget. *"Integrating the Organ and Tissue Allocation Processes through an Agent-Mediated Electronic Institution"* In M. Teresa Escrig, Francisco Toledo, Elisabet Golobardes (Eds.) *Topics in Artificial Intelligence: 5th Catalanian Conference on AI, CCIA 2002, Castellón, Spain, October 2002* (proceedings). *Lecture Notes in Artificial Intelligence 2504*, pp. 309-321. Springer-Verlag, 2002. ISSN 0302-9743. ISBN 3-540-00011-9.
- [10] J. Vázquez-Salceda, F. Dignum. *"Modelling Electronic Organizations"*. In V. Marik, J. Muller and M. Pechoucek (Eds.) *Multi-Agent Systems and Applications III: 3rd. International/Central and Eastern European Conference on Multi-Agent Systems - CEEMAS'03-*. *Lecture Notes in Artificial Intelligence 2691*, pp. 584-593. Springer-Verlag, Berlin, 2003. ISSN 0302-9743. ISBN 3-540-40450-3.
- [11] J. Vázquez-Salceda, M. Sànchez-Marrè and U. Cortés. "Using Case-Based Reasoning to overcome high computing cost interactive simulations". In K.D. Ashley and D.G. Bridge (Eds.) *Case-Based Reasoning Research and Development: Fifth International Conference on Case-Based Reasoning, ICCBR'03, Trondheim, Norway, June 2003, Proceedings*. *Lecture Notes in Artificial Intelligence 2689*, pp. 581-594. Springer-Verlag, 2003. ISSN 0302-9743. ISBN 3-540-40433-3
- [12] C. Urdiales, J. Vázquez-Salceda, E.J. Perez, M. Sànchez-Marrè and F. Sandoval. "A CBR based pure reactive layer for autonomous robot navigation". *Proceedings of the 7th IASTED International Conference on Artificial Intelligence and Soft Computing, July 14-16, 2003, Banff, Canada*, pp. 99-104. Acta Press 2003. ISSN 1482-7913. ISBN 0-88986-367-9.
- [13] C. Urdiales, E.J. Perez, J. Vázquez-Salceda, F. Sandoval. "A hybrid architecture for autonomous navigation using a CBR reactive layer". *Proceedings of the 2003 IEEE/WIC International Conference on Intelligent Agent Technology (IAT 2003), Halifax, Canada, 13-16 October 2003*, pp 225-232. IEEE Computer Society 2003. ISBN 0-7695-1931-8.
- [14] U. Cortés, R. Annicchiarico, J. Vázquez-Salceda, C. Urdiales, L. Cañamero, M. López, M. Sánchez-Marré, C. Caltagirone. "e-Tools: The use of Assistive Technologies to enhance disabled and senior citizens' autonomy". Presented at the EU-LAT Workshop on e-Health, Cuernavaca, Mexico, December 2003. Published in [32].
- [15] C. Urdiales, C. de Trazegnies, J. Vázquez-Salceda, F. Sandoval. "eGovernment and Identity Management: a Signature Coding Method for PIN generation" Presented at the EULAT'04 workshop on eGovernment and eDemocracy, Santiago de Chile, May 2004. Published in J. Padget, R. Neira and J. L. Díaz de León (eds.), "e-Government and e-Democracy: Progress and Challenges", pp. 176-188, 2004. ISBN:970-36-0152-9.
- [16] E. J. Perez, C. Urdiales, F. Sandoval, J. Vázquez-Salceda. "A CBR strategy for autonomous reactive navigation learning". *10th International Symposium on Robotics and Applications –ISORA 2004-*, Sevilla, Spain, June 2004.
- [17] D. Isern, R. Annicchiarico, J. Vázquez-Salceda, C. Urdiales, C. Caltagirone. "Applying Multi-Agent Systems and Bio-Mimetic Navigation Architectures for Coordination and

Scheduling of Humans and Robots". 10th International Symposium on Robotics and Applications –ISORA 2004-, Sevilla, Spain, June 2004.

- [18] V. Dignum, J. Vázquez-Salceda, F. Dignum. "OMNI: Introducing Social Structure, Norms and Ontologies in Agent Organizations". In R.H. Bordini, M. Dastani, J. Dix, A.E.F. Seghrouchni (Eds.) Programming Multi-Agent Systems: Second International Workshop on Programming Multiagent Systems Languages and tools -PROMAS 2004-, New York, July 2004. Lecture Notes in Artificial Intelligence 3346, pp. 181-198. Springer-Verlag, Berlin, 2005. ISSN 0302-9743. ISBN 3-540-24559-6.
- [] J. Vázquez-Salceda, H. Aldewereld, F. Dignum. "Implementing Norms in Multiagent Systems". In G. Lindemann, J. Denzinger, I. J. Timm and R. Unland (Eds.) Multiagent System Technologies: Second German Conference, MATES 2004, Erfurt, Germany, September 2004, Proceedings. Lecture Notes in Artificial Intelligence 3187, pp. 313-327. Springer-Verlag, Berlin, 2004. ISBN 3-540-23222-2.
- [19] V. Dignum, J. Vázquez-Salceda, F. Dignum. "A Model of Almost Everything: Norms, Structure and Ontologies in Agent Organizations" Proceedings of AAMAS'04, Third International Joint Conference on Autonomous Agents and Multiagent Systems, New York, July 2004 (poster).
- [20] U. Cortés, C. Barrué, R. Annicchiarico, J. Vázquez-Salceda, C. Caltagirone. "An e-organization for e-tools". Second European Workshop on Multi-Agent Systems -EUMAS'04-, Barcelona, December 2004.
- [21] J. Vázquez-Salceda, H. Aldewereld, F. Dignum. "Norms in Multiagent Systems: some Implementation Guidelines". Second European Workshop on Multi-Agent Systems -EUMAS'04-, Barcelona, December 2004.
- [22] D. Grossi, H. Aldewereld, J. Vázquez-Salceda, F. Dignum. "Ontological Aspects of the Implementation of Norms in Agent-Based Electronic Institutions (accepted in the 1st International Symposium on Normative Multiagent Systems -NorMAS2005-, Hatfield, England, April 2005).

b) Journal papers

- [23] U. Cortés, J. Vázquez-Salceda, A. López-Navidad, F. Caballero. "*UCTx: A Multi-Agent system to assist a Transplant Coordination Unit*". *Journal of Applied Intelligence* 20, Issue 1, pp. 59-70, January-February 2004. ISSN 0924-669 X. [JCR impact index: 0.776]
- [24] U. Cortés, R. Annicchiarico, J. Vázquez-Salceda, C. Urdiales, L. Cañamero, M. López, M. Sánchez-Marrè, C. Caltagirone. "Assistive technologies for the disabled and for the new generation of senior citizens: the e-Tools Architecture". *AI Communications* vol. 16 num. 3 pp. 193-207. IOS Press, 2003. ISSN 0921-7126. [JCR impact index: 0.829]
- [25] J. Vázquez-Salceda, J.A. Padget, U. Cortés. "*Formalizing an Electronic Institution for the distribution of Human Tissues*". *Artificial Intelligence in Medicine* vol. 27 issue 3, pp. 233-258. Elsevier, March 2003. ISSN 0933-3657. [JCR impact index: 1.222]
- [26] J. Vázquez-Salceda, U. Cortés, J. Padget, A. López-Navidad, F. Caballero. "*The organ allocation process: a natural extension of the Carrel Agent Mediated Electronic Institution*". *AI Communications* vol. 16 num. 3, pp. 153-165. IOS Press, 2003. ISSN 0921-7126. [JCR impact index: 0.829]
- [27] U. Cortés, R. Annicchiarico, F. Campana, J. Vázquez-Salceda, C. Urdiales, L. Cañamero, M. López, M. Sánchez-Marrè, S. di Vincenzo, C. Caltagirone. "Intelligenza artificiale in Medicina: progetto di una piattaforma mobile inserita in un ambiente intelligente per l'assistenza ai disabili e agli anziani". *Recenti Progressi in Medicina* 95(4), pp. 190-195, April 2004.

c) Book chapters

- [28] U. Cortés, J. Vázquez-Salceda, A. López-Navidad. "*Protección de datos médicos e Internet*". "El Donante de órganos y tejidos (2ª edición)". Editor: A. López-Navidad. (*in press*)
- [29] D. Cabanillas, J. Vázquez-Salceda, D. Bouissou, S. Willmott and U. Cortés. "Carrel: Secure Deployment of an Agent-Based Health Care Application". In A. Moreno and J. Nealon (Eds.) *Applications of Software Agent Technology in the Health Care Domain*. Whitestein Series in Software Agent Technology, Birkhäuser Verlag AG, Switzerland, September 2003. ISBN 3-7643-2666-X.

d) Books

- [30] Co-author of the e-Book "*Programació en Java Avançada*". Universitat Oberta de Catalunya, 2000.

- [31] Co-author of the e-Book "*Fonaments de la Programació II*". Universitat Oberta de Catalunya, 2000.
- [32] Co-editor of the book "*e-Health: Application of Computing Science in Medicine and Health Care*" Research on Computing Science vol. 5. Instituto Politécnico Nacional, Centro de Investigación en Computación, México 2003. ISBN 970-36-0118-9.
- [33] Author of the book "*The role of Norms and Electronic Institutions in Multi-Agent Systems*". Whitestein Series in Software Agent Technology, Birkhäuser Verlag AG, Switzerland. ISBN 3-7643-7057-2

e) Technical Reports

- [34] J. Vázquez-Salceda, U. Cortés, J. Padget, A. López-Navidad, F. Caballero. "*Extending the Carrel System to mediate in the organ and tissue allocation processes: A first Approach*". LSI-02-32-R, Departament de Llenguatges I Sistemes Informàtics. April 2002.
- [35] J. Vázquez-Salceda, C. Mérida-Campos, J.M. Pujol. "*Creating Agent Platforms to host Agent-Mediated Services that share resources*". LSI-02-43-R, Departament de Llenguatges I Sistemes Informàtics June 2002.
- [36] R. Sangüesa, A. Vázquez, J. Vázquez-Salceda. "*The ACE Recommender System*". LSI-01-21-R, Departament de Llenguatges I Sistemes Informàtics April 2001.
- [37] X. Franch, J. Gabarró, A. Gómez, A. Vázquez, J. Vázquez-Salceda. "*Beginning to Programming pilot course, IniPro, using Java*". LSI-99-18-R, Departament de Llenguatges I Sistemes Informàtics April 1999.
- [38] E. Black, J. Vázquez-Salceda, J. Fox, U. Cortés. "Formalising and simulating a Medical Institution Using PROforma agents". Advanced Computation Laboratory, Cancer Research UK, London UK, 2003.
- [39] J. Vázquez-Salceda, V. Dignum, F.Dignum. "Organizing Multiagent Systems". UU-CS-2004-015. Institute of Information & Computing Sciences, Utrecht. March 2004
- [40] J. Vázquez-Salceda. "Normative Agents in Health Care: Uses and Challenges". UU-CS-2004-038. Institute of Information & Computing Sciences. August 2004.