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References :

- Prof. Paolo Mancarella  
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# Short curriculum vitæ

## Maxime MORGE

Born the 17th of november 1977 in Saint-Etienne

Nationality : french

civil union, one child



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### *Mailling adress (work)*

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via Garibaldi, 208

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## Education

2005 : PhD in Computer Science, ENS des Mines de Saint-Etienne.

2001 : Master of computer science, Université de Savoie.

## Present job

- Research associate at Università di Pisa.
- Principal investigator of the 035200 ARGUGRID project supported by the Sixth Framework IST programme of the EC.

## Past Job

2006-2005 Researcher in the Laboratoire d'Informatique Fondamentale de Lille.

2006-2005 Lecturer in the departement of Computer Science of the IUT "A", Université Lille 1.

2000-2004 Researcher in the Centre de Recherche Génie Industriel et Informatique, École Nationale Supérieure des Mines de Saint Etienne.

2004-2005 Lecturer at the Institut Supérieur d'Economie d'Administration et de Gestion de Saint-Etienne.

2000-2004 Lecturer in the Université Jean Monnet and in the École Nationale Supérieure des Mines de Saint Etienne.

## Research activity

PhD title : *A dialectical multiagent system to support deliberation.*

Supervisors : Olivier BOISSIER, Professeur d'Informatique, ENS Mines Saint-Etienne,  
Philippe BEAUNE, Maître assistant, ENS Mines Saint-Etienne.

Publications :

- 1 chapter of book
- 2 papers in international journals
- 1 paper in national conference
- 3 papers in international conferences (2 long ones)
- 8 papers in international workshops (5 long ones)
- 7 papers in international french conferences (4 long ones)
- 3 papers in national conferences
- 2 work-in-progress papers
- 18 research seminars (6 abroad)

## Professional activities

**2006** Member of the organisation committee for the conference SPECIF.

**2005** Supporter of the Agentlink argumentation interchange format technical forum 2005, Budapest.

**2002-2003** Secretary of the french association of young researchers



# Long Curriculum Vitæ

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## Contact

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## Present/past job

### 2006-2007 Research Associate

Place : Dipartimento di Informatica, Università di Pisa.

### 2005-2006 Lecturer

Place : Département d'Informatique de l'IUT A, Université Lille 1.

Service : 192 hours.

### 2004-2005 Lecturer

Place : Institut Supérieur d'Économie, d'Administration et de Gestion de Saint-Etienne.

Service : 96 hours.

### 2001-2004 PhD Candidate

Place : École Nationale Supérieure des Mines de Saint-Etienne.

### 2001-2004 Lecturer

Place : École Nationale Supérieure des Mines de Saint-Etienne.

Service : 54 hours.

### 2000-2004 Lecturer

Place : Université Jean-Monnet de Saint-Etienne.

Service : 165,6 hours.

## EDUCATION

### Diplomas

#### 2001-2005 PhD in Computer Science

Place : École Nationale Supérieure des Mines de Saint-Etienne.

Title : *A dialectical multiagent system to support deliberation.*

Keywords : Multiagent systems, dialogue, argumentation, groupware.

Funding :

– Action Concertée Incitative Ville (allocation de recherche fléchée),

– ADNT (projet région Rhône-Alpes);

Supervisors : Olivier BOISSIER, Philippe BEAUNE.

Date : 20th of june 2005.

Jury :

Rapporteurs :

Philippe MATHIEU

Jean-Paul SANSONNET

Examineurs :

Philippe BEAUNE

Olivier BOISSIER

Jean-Luc KONING

Nicolas MAUDET

Professeur d'Informatique, Université Lille 1

Directeur de recherche CNRS, LIMSI-CNRS

Maître assistant, ENS Mines Saint-Etienne

Professeur d'Informatique, ENS Mines Saint-Etienne

Professeur d'Informatique, INPG ESISAR Valence

Maître de conférences, Université Paris IX

**2000-2001** Master of Computer science

Place : Université de Savoie.

Title : *Communication and collaboration in multiagent systems.*

Option : algorithmics.

Master thesis : *Decision support for land planning.*

Supervisors : Philippe BEAUNE, Laurent VERCOUTER.

## Trainees

**2004** European Summer School in Logic, Language and Information

Place : Nancy.

Organization : European Association for Logic, Language and Information.

Grant : International Joint Conferences on Artificial Intelligence.

Duration : 2 weeks.

**2002** European Agent Systems Summer School

Place : Bologna.

Organization : Agentlink network of excellence.

Duration : 1 week.

**2006** Trainee

Title : A framework for automated contracting in B2B eMarkets.

Organization : Natural Sciences and Engineering Research Council of Canada.

Place : School of Management - University of Ottawa.

Duration : 2 weeks.

**2000-2001** Trainee

Title : Decision support system : medical hardware, expert system.

Organization : French cancer council.

Durée : 6 month, part-time.

## Computer skills

Programming language : Java, C, Perl, Scheme, Prolog, SQL, CAML, COBOL.

Markup language : LaTeX, HTML, CSS, XML, DocBook.

OS : GNU/Linux, AS/400, Windows.

Network : TCP/IP, Ethernet, NIS, NFS, BOOTP, DHCP, NAT.

Office suite : M\$Office, OpenOffice, StarOffice.

# Research activities

## Past experience

### Master thesis

We have proposed a Group Deciding Support System which could be used in environment planning by the elect, civil society and experts. This software, a groupware, drives rational decisions according to governance principles. More pluralistic than hierarchic, it guarantees the readability in the choice made by all between creative solutions. Moreover, users are really assisted and need no ability in Computer Science.

This Negotiation Support System provides three kinds of functionality. Firstly, it facilitates the exchange of information among users. Secondly, it provides decision-modelling or group-decision techniques to reduce the noise and uncertainty that occur in the process of asynchronous telecooperation. Finally, it provides negotiation support. The field of Artificial Intelligence in particular multiagent methods can be useful for negotiation support. In this work, we have used these technics to detect the sources of conflict. Interaction between users is used to clarify conflicts.

Our system is based on multi-agent negotiation. Figure ?? shows the system architecture. Each agent assists a user in the multi-criteria decision making and negotiates according to this decision-modelling with other agents, each of them representing an user. All agents are registered by a middle agent transmitting proposals and counter-proposals to other agents. This system provides addition functionalities to negotiate a joint representation of the problem and to automatically justify proposals based on this joint representation.

### PhD thesis

In public decision such as land planning, the success of the decision outcome depends on the extent to which people believe it has been reached fairly. The actors must have a role in forming even if they disagree with the final outcome. The decisions must be collective and argued. This observation changes the way we appreciate the democratic procedures. We can distinguish two different modalities of formation of political will : the representative democracy and the **dialogical democracy**. On the one hand, the representative democracy is a process in which the individual preferences are aggregated to obtain outcome. The electors and the lay public delegate their power to the elect and the experts. On the other hand, the dialogical democracy is a participative fair effect process to compose the interests and perspectives. The civil society debate and deliberate. In this paper, we aim at formalizing such a process with a framework for inter-agent communication.

Most of the existing formal framework for inter-agent interaction are based on speech acts theory. For example, FIPA-ACL define communicative acts by pre/post conditions bearing on the mental attitudes of agents. This mentalistic approach is not suitable for our objective. (1) The mental concepts are not adapted to manage the conflicts. (2) The communication has no public semantics to be judged in an objective perspective. (3) However isolated communicative acts do not suffice to achieve a common goal, the existing protocols are too rigid for the debate.

By contrast, recent works are inspired by the dialectics. Not being a first attempt, our work combines, reconciles and extends these argumentative techniques in a coherent framework for the formalization of a dialogical democracy. We propose a dialectics system, *i.e.* a formal framework in which agents communicate to reach a collective decision. (1) The argumentation-based reasoning mechanism manages the interaction between conflicting arguments. (2) Since the communication language has a public semantics, every agents confer the same meaning to the messages and any third agent is able to draw similar inferences. (3) The dialogue is a flexible and refined process to reach an agreement.

In this work, we show how the existing argumentative techniques can be combined to formalize a dialogical democracy. We propose an argumentation framework, *i.e.* the reasoning mechanism of agents. In accordance with this background, we propose a model of argumentative agents. We define the formal framework in which the agents collaborate and the dialogue protocol used to reach an agreement. Moreover, this framework is suitable in collaborative decision making.

Collaborative Decision Support Systems (CDSS) are defined as interactive computer-based systems that facilitate the deliberation by a set of decision makers working together. CDSS are used for distributed and asynchronous collaboration, allowing users not to be in the same place and work at the same time. By supporting and not replacing human judgment, the users come in first and the system second, acting as an assistant and advisor by facilitating the consensus seeking, but leaving the final enforcement of decisions and actions to the users. Moreover, decision makers are not necessarily proficient in computer science and IT.

The stakeholders, as an individual or as part of a larger group, may or believe they may be impacted by the potential consequences of a decision. Their beliefs may be diverse and their preferences may be conflicting. They need appropriate tools in order to (1) negotiate a joint representation of the problem and to (2) detect the conflicts and the consensus between them.

For this purpose, we use the Analytic Hierarchy Process (AHP), that can be viewed as a powerful and flexible argumentation based decision making process, to help people to build an argumentation schema (representation of the problem) and to express preferences about it. Considering this multi-criteria decision-making as an argumentation-based decision-making, the dialogue system is used to support the joint deliberation. Each agent assists a user and interacts each other.

- **Negotiate a joint representation of the problem.** The greater the number of people involved is, the greater the range of ideas is. However, the knowledge and judgments are subjective because sometimes relevant

information is missing and sometimes the comprehension is disturbed by the prohibitive existing volume of information. That is the reason why the system provides tools for the collaborative development of a joint argumentation schema with respect to the reference systems of the stakeholders. All of them share the same goal but each of them has its own set of alternatives or criteria. These sets can expand or retract during the deliberation. It helps the group to debate the problem.

- **Detect the conflicts and the consensus between the stakeholders.** However judgments are subjectives, the joint argumentation schema can be used to justify opinions. Each user is assisted by an agent representing him in argumentation-based and automated deliberation. The persuasion dialogue between two agents makes it possible to reach the conflict or the consensus among users preferences on their joint argument schema. So, the dialogue system provides reasoning mechanisms to check for consistencies and inconsistencies among users preferences.

## Post-doctoral experience in Lille

The work done in collaboration with the team SMAC in the departement of computer science in Lille follows the work done during my PhD thesis.

At first, the formal framework of dialogue have been extended to deal with heterogeneous terminologies. For this purpose, I have proposed an argumentation-based representation framework to manage conflicting description. Moreover, I have proposed a model for the reasoning of agents where they justify the description to which they commit and take into account the description of their interlocutors. Finally, I have provided a dialectical system allowing agents to participate in a dialogue in order to reach an agreement over heterogeneous descriptions.

At second, I was interested in peer-to-peer systems for file-sharing which is an application for multiagent systems. This domain proposes new challenges concerning collaboration. We have adapted the theoretical framework for ressource allocation to this application and we have proposed a computational mechanism to solve the free-riding problem. This mechanism, which is decentralized and motivate agents to collaborate, converge to a Nash equilibria and distribute ressources in a computational and optimal way.

This work have been support by the CPER TAC of the region Nord-Pas de calais and the european fund FEDER.

## Post-doctoral experience in Pisa

During the first year, I have proposed and implemented a concrete AF for practical reasoning<sup>1</sup>. A logic language is used as a concrete data structure for holding the statements like knowledge, goals, and actions. Different priorities are attached to these items corresponding to the reliability of the knowledge, the user's preferences, and the expected utilities of alternatives. These concrete data structures consist of information providing the backbone of arguments. Due to the abductive nature of practical reasoning, arguments are built by reasoning backwards. To be intelligible, arguments are defined as tree-like structures. Due to their nature, the incompatibility of their sentences, and the priority relation between the top rules of built arguments, the arguments interact with one another. Since a decision support system involves an ultimate choice of the user between various admissible set of alternatives, we have adopted a credulous semantics. Future investigations must explore how this proposal scales to drive argumentation-based negotiations.

Moreover, I have provided an argumentative model of agents able to select and compose services in open and distributed environments. For this purpose, we have proposed a modular agent architecture using three main modules, dedicated, respectively, to decision making, communication, and negotiation. We have deployed a simple "virtual" travel agent example to illustrate how our agents select and compose services, focusing on the functionalities of the modules within the agents.

This work is supported by the Sixth Framework IST programme of the EC, under the 035200 ARGUGRID project.

## Reviewers

- IEEE Journal of Intelligent Systems.
- 23<sup>rd</sup> International Conference on Logic Programming (ICLP'2007), Porto, Portugal.
- 9<sup>th</sup> Annual ACM symposium on applied computing (SAC'04), Nicosia, Cyprus, March 2004.
- 11<sup>ème</sup> Journées francophones sur les systèmes multi-agents (JFSMA03), Hammamet, Tunisie, Novembre 2003.
- 2<sup>nd</sup> International conference on autonomous agents and multiagent system (AAMAS03), Melbourne, July 2003.
- 1<sup>st</sup> International conference on autonomous agents and multiagent system (AAMAS02), Bologna, 2003.
- 15<sup>th</sup> European conference of artificial intelligence (ECAI'02), Lyon, 2002.

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<sup>1</sup><http://margo.sourceforge.net>

## Publications

All the publications are available at : <http://www.di.unipi.it/~morge/pub.html>.

### Chapter of book

- [1] MORGE, M. *Se concerter à l'aide d'un système multi-agents*. Humanités numériques, Traité Information-Commande-Communication, p 117-126, Hermès science publication, 2007 (à paraître).

### International journal paper

- [2] MORGE, M. and ROUTIER, JC. *Debating over heterogeneous ontologies*. Applied Ontology, Special issue on Formal Ontologies for Communicating Agents, 14 pages, IOS Press, 2007 (to appear).
- [3] MORGE, M. *Collective decision making to compose divergent interests and perspectives*. Special issue of A.I. And Law on Argumentation, p75-92, Springer Verlag, 2006.

### National journal paper

- [4] MORGE, M. and MATHIEU, P. *Mécanisme de rétribution pour les systèmes P2P d'échanges de fichiers - Comment résoudre le problème du cavalier seul ?*. RSTI-ISI, numéro spécial sur les systèmes d'informations pair-à-pair, 25 pages, Lavoissier, 2007 (to appear).

### Papers in proceedings of international conferences

- [5] MORGE, M. and ROUTIER, JC. *Argumentation to compose services*. 18<sup>th</sup> Belgian-Dutch conference on Artificial Intelligence, 8 pages, Namur, Belgium, October 2006 (long paper).
- [6] MORGE, M. *A dialectics system in which argumentative agents play and arbitrate to reach an agreement*. 17<sup>th</sup> Belgian-Dutch conference on Artificial Intelligence, 8 pages, Bruxelles, Belgium, October 2005 (short paper).
- [7] MORGE, M. and BEAUNE, P. *A negotiation support system based on a multi-agent system*. Coordination Models, Languages and Applications(CM), special track of the 19<sup>th</sup> Annual ACM Symposium on Applied Computing (SAC'04), p 474-478, Nicosia, Cyprus, March 2004 (acceptance rate 37 %).

### Papers in proceedings of international workshops

- [8] MORGE, M. and MANCARELLA, P. *The hedgehog and the fox. An argumentation-based decision support system*. Proc. of the Fourth International Workshop on Argumentation in Multi-Agent Systems (ArgMAS 2007), p 55-68, In Conjunction with AAMAS 2007, Honolulu, Hawaii, USA, 2007.
- [9] MORGE, M. and MANCARELLA, *Argumentation-based decision making for selecting communication services in ambient home environments*. Proceedings of the Symposium on Artificial Societies for Ambient Intelligence (ASAMI), pages 46-49, AISB Convention, Newcastle University, UK, April, 2007 (short paper).
- [10] MORGE, M. and ROUTIER, JC. and SECQ, Y. *A formal framework for inter-agents dialogue about a representation*. Proceedings of the 6<sup>th</sup> Workshop on Computational Models of Natural Argument (CNMA), 6 pages, Riva del Garda, Italy, August 2006.
- [11] MORGE, M. and ROUTIER, JC. and SECQ, Y. and DUJARDIN J. *A formal framework for inter-agents dialogue about a representation*. Proceedings of the Workshop on Formal Ontologies for Communicating Agents (FOCA), 10 pages, Malaga, Spain, August 2006.
- [12] MORGE, M. *A dialectics system in which argumentative agents play and arbitrate to reach an agreement*. Proceedings of the workshop on Argumentation in Artificial Intelligence and Law, 6 pages, Bologna, Italy, June 2005.
- [13] MORGE, M. *Computer supported collaborative argumentation*. Workshop on Computational Models of Natural Argument, 4 pages, Valencia, Spain, August 2004 (short paper).
- [14] MORGE, M. *A dialogue-game protocols for agent resolving by verbals means*. Workshop on Logic and Communication in Multi-Agent Systems, 14 pages, Nancy, August 2004.
- [15] MORGE, M. and COLLINS, S. *Software components for a dialogue multiagent system*. Workshop on the semantics and pragmatics of dialogue, Saarbrücken, Germany, September 2003 (poster, acceptance rate 80%).

### Papers in proceedings of international french conferences

- [16] Maxime Morge, Jarred McGinnis, Stefano Bromuri, Francesca Toni, Paolo Mancarella, Kostas Stathis. *Vers une architecture modulaire d'agent argumentatif pour la composition de services..* Proceedings of the 15th Journées Francophones sur les Systèmes Multi-Agents (JFSMA), 10 pages, Carcassonne, France, 2007 (to appear, acceptance rate 22%).

- [17] Morge, M and Routier JC. *Debating over heterogeneous ontologies*. Proc. of the Quatrièmes Journées Francophones Modèles Formels de l'Interaction (MFI 2007), pages 215-226, Paris, France 2007 (acceptance rate 40%).
- [18] Morge, M and Mancarella P. *The hedgehog and the fox. An argumentation-based decision support system*. Proc. of the Quatrièmes Journées Francophones Modèles Formels de l'Interaction (MFI 2007), pages 357-364, Paris, France 2007 (short paper, acceptance rate 72%).
- [19] MORGE, M. and MATHIEU, P. *Conception de mécanisme décentralisé pour les système P2P d'échange de fichiers*. Proceedings of the 14th Journées Francophones sur les Systèmes Multi-Agents (JFSMA), p 145-158, Annecy, France, 2006 (acceptance rate 32%).
- [20] MORGE, M. and ROUTIER, JC. and SECQ, Y. and DUJARDIN J. *Comment atteindre un accord sur une représentation ?* Proceedings of the 14th Journées Francophones sur les Systèmes Multi-Agents (JFSMA), Annecy, France, 2006 (acceptance rate 54%).
- [21] MORGE, M. *Système dialectique au travers duquel les agents jouent et arbitrent*. 13<sup>ème</sup> Journées Francophones sur les Systèmes Multi-Agents (JFSMA), p 115-127, Calais, France, Novembre 2005 (short paper, acceptance rate < 20 %).
- [22] MORGE, M et BEAUNE P. *Conception multi-agents d'un système d'aide à la décision collective*. 11<sup>ème</sup> Journées Francophones sur les Systèmes Multi-Agents (JFSMA), p 359-363, Hammamet, Tunisie, Novembre 2003 (short paper, acceptance rate 38 %).

### Papers in proceedings of national french conferences

- [23] MORGE, M. et MANCARELLA P. *Modèle d'argumentation pour le raisonnement pratique*. Actes des Journées Francophones Planification, Décision, Apprentissage pour la conduite de système (JFPDA), pages 123-134, Grenoble, France, Juillet 2007.
- [24] MORGE, M. et ROUTIER JC. *Système dialectique délibératif*. Actes des Journées Francophones Planification, Décision, Apprentissage pour la conduite de système (JFPDA), 8 pages, Toulouse, France, Mai 2006.
- [25] MORGE, M. *Jeux de dialogue : formalisation, gestion, terminaison et succès*. Journée d'étude ATALA sur les relations entre systèmes multi-agents et traitements automatiques des langues, Paris, France, Mars 2004 (acceptance rate 100 %).

### Work in progress

- [26] MORGE, M. and MANCARELLA, *A quantitative argumentation-based decision supported system*. 10 pages.
- [27] MORGE, M. and MANCARELLA, *Computing argumentation for decision making in legal disputes*. 18 pages.

### Communications

- [1] MORGE, M. *Debating over heterogeneous descriptions..* Atelier Ontologies et Gestion de l'hétérogénéité sémantique, Grenoble, Juillet 2007.
- [2] MORGE, M. *Modèle de raisonnement et architecture d'agents argumentatifs pour la composition de services..* Atelier Intelligence Artificielle & Web Intelligence, Grenoble, Juillet 2007.
- [3] MORGE, M. *Argumentation framework for decision making*. Research seminar, Department of computing, Imperial College, London, March 2006.
- [4] MORGE, M. *Argumentation framework for decision making*. Research seminar, Department of Computer Science, Royal Holloway, University of London, Egham, March 2006.
- [5] MORGE, M. *Argumentation framework for collective decision making*. Research seminar, Dipartimento di Informatica, Pisa, Decembre 2006.
- [6] MORGE, M. *Argumentation framework for multi attribute decision making*. Workshop on Computational Model of Law, European University Institute, Florence, November 2006.
- [7] MORGE, M. *Cadre d'argumentation bayésien*. 3<sup>ème</sup> Journée Francophone pour les Réseaux Bayésiens, Valenciennes, France, Juin 2006.
- [8] MORGE, M. *Comment atteindre un consensus ontologique ?* Séminaire de recherche, Valenciennes, France, Juin 2006.
- [9] MORGE, M. *Comment atteindre un consensus ontologique ?* Séminaire MOSAIQUES, Lille, France, Juin 2006.
- [10] *Système dialectique multi-agents*. Séminaire du centre de recherche en informatique de Lens, France, Janvier 2005.
- [11] *Collective decision-making process to compose divergent interests and perspectives*. 7<sup>th</sup> Augustus de Morgan Workshop, Great Hall, King's College, London, November 2005 (short talk).
- [12] *Système dialectique multi-agents : vers une prise de décision collective et débattue*. Groupe de travail "Modèles Formels pour l'Interaction", groupe de recherche CNRS I3, Paris, France, Octobre 2005.

- [13] *Système dialectique multi-agents*. Séminaire du laboratoire d'informatique fondamentale de Lille, France, Octobre 2005.
- [14] *Modèle formel pour les dialogues argumentatifs entre agents*. Journées de clôture de l'action concertée incitative "Ville", Paris, France, Mars 2004.
- [15] *Système multi-agents dialogique*. Séminaire d'informatique de Saint-Etienne, France, Septembre 2003.
- [16] *Système multi-agents dialogique*. Séminaire système complexe et système multi-agents, Lyon, France, Septembre 2003.
- [17] *Système d'aide à la négociation*. Séminaire de l'action concertée incitative "Ville", Tours, Octobre 2003.
- [18] *Conception multi-agents d'un système d'aide à la concertation*. Conférence du groupe d'études interdisciplinaires en géographie et environnement régional, Montreal, Canada, Novembre 2001.

# TEACHING ACTIVITIES

I was a lecturer at the IUT A (University of Lille 1) from september 2005 until september 2006. I gave lectures between 2000 and 2005 at the University of Saint Etienne and at the École Nationale Supérieure des Mines de Saint Etienne.

The public of my lectures were heterogenous with different levels and cultures : graduate students, post-graduate students, engineer students, or foreign students. They were computer scientists, physicists, economists, law students or multidisciplinary engineers. Some of my lectures concerned my research. Other lectures were introductions of Computer Science.

I prepared, organised and wrote the materials of these lectures. I have written and published on the web some lecture materials like supplementary exercises to complete the work of my colleagues but also the following original lecture courses notes : automated negotiation, communication in multiagent systems, introduction to the networks, tools and languages for Internet.

I have done **515 hours**.

| <i>Year</i> | <i>Lab (TP)</i> | <i>Exercices (TD)</i> | <i>Lecture (CM)</i> | <i>Sum</i> |
|-------------|-----------------|-----------------------|---------------------|------------|
| 2005-2006   | 32h             | 170h                  | 1h                  | 192h       |
| 2004-2005   |                 | 100h                  | 3h                  | 104h       |
| 2003-2004   | 62h             |                       | 2h                  | 45h        |
| 2002-2001   | 22h             | 26h                   | 12h                 | 59h        |
| 2001-2002   | 34h             | 38h                   |                     | 60h        |
| 2000-2001   | 48h             | 23h                   |                     | 55h        |
| <b>Sum</b>  |                 |                       |                     | 515h       |

| <b>Title</b>                        | <b>Nature</b> | <b>Public</b>                           | <b>Hours</b> |
|-------------------------------------|---------------|---|--------------|
| <b>2005-2006</b>                    |               |   |              |
| Operating systems                   | TD/TP/CM      | 1 <sup>st</sup> year in CS              | 48h          |
| Database                            | TD/TP         | 2 <sup>nd</sup> year in CS              | 112h         |
| Algorithmics                        | TP            | 1 <sup>st</sup> year in CS              | 32h          |
| <b>2004-2005</b>                    |               |   |              |
| Communication in multiagent systems | CM            | 5 <sup>th</sup> year in CS              | 3h           |
| Tools and language for Internet     | TD            | 3 <sup>th</sup> year in Economy         | 24h          |
| Introduction in Computer Science    | TD            | 3 <sup>th</sup> year in Economy         | 22h          |
| Introduction in Computer Science    | TD            | 3 <sup>th</sup> year in Law             | 54h          |
| <b>2003-2004</b>                    |               |   |              |
| Negotiation in multiagent systems   | CM            | 5 <sup>th</sup> year in CS              | 2h           |
| Office suite                        | TP            | 1 <sup>st</sup> year in Physic          | 22h          |
| Introduction to the language C      | TP/Projet     | 1 <sup>st</sup> year in Physic          | 40h          |
| <b>2002-2003</b>                    |               |   |              |
| Negotiation in multiagent systems   | CM            | 5 <sup>th</sup> year in CS              | 2h           |
| DCSP/DCOP                           | Projet        | 4 <sup>th</sup> year in CS              | 0,6h         |
| Introduction to network             | CM/TD/TP      | 1 <sup>st</sup> year in Math            | 25h          |
| Introduction to the language C      | CM/TP         | 1 <sup>st</sup> year engineering school | 12h          |
| Introduction to the language Java   | CM/TP         | 1 <sup>st</sup> year engineering school | 16h          |
| Office suite                        | TP            | 1 <sup>st</sup> year Biology            | 14h          |
| <b>2001-2002</b>                    |               |   |              |
| Introduction to the language Java   | TD/TP         | 1 <sup>st</sup> year engineering school | 10h          |
| Introduction to the language C      | CM/TP         | 1 <sup>st</sup> year engineering school | 12h          |
| Introduction to computer science    | TD/TP         | 1 <sup>st</sup> year Physic             | 24h          |
| Office suite                        | TP            | 1 <sup>st</sup> year Biology            | 14h          |
| <b>2000-2001</b>                    |               |   |              |
| Introduction to algorithmics        | TD            | 2 <sup>nd</sup> year Physic             | 8h           |
| Introduction to the language C      | TP            | 2 <sup>nd</sup> year Math               | 16h          |
| Office suite                        | TP            | 2 <sup>nd</sup> year Biology            | 32h          |
| Office suite                        | TP            | 1 <sup>st</sup> year Law                | 15h          |

## Professional activities

### Elected

- 2002-2003** Elected to represent PhD candidates in the administration council
- 2001-2003** Elected to represent PhD candidates in the research council
- 2001-2002** Elected to represent PhD candidates in the scholl council
- 2000-2001** Elected to represent Master students in the research council

### Associations

- 2006** "The free softwares such as the free and complete GNU/Linux OS", invited conference to open the *Namur Linux Days 2006*, Namur, march 2006.
- 2004-2005** Member of ALOLISE (LUG)
- 2004-2005** Member of APINC (Association to Promote the Non-Commercial Internet)
- 2001-2005** Secretary and President of ASEC (Association of Young Researchers in Saint-Etienne)
- 2002-2003** Secretary of CJC (French Association of Young Researchers)

### Conferences organization

- 2006** Member of the organisation commitee for the conference SPECIF (French Society of Lecturers and Researchers n Computer Science)
- 2005** Supporter of the Agentlink argumentation interchange format technical forum 2005<sup>2</sup>, Budapest.
- 2000** Member of the organisation commitee of the journées francophones pour l'intelligence artificielle distribuée et les systèmes multi-agents, Saint-Etienne.

### Misc

Languages : french, english, italiano.

Hobbies : <http://www.imdb.com>, <http://www.juggling.org>, <http://www.tetes-raides.fr.tm>.

Other : Full driving licence.

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<sup>2</sup><http://www.x-opennet.org/aif/>