

# Gauthier PICARD

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AI and Multi-Agent Systems

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[Updated on 16/01/2026]

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## Education

- 2014 **HDR in Computer Science**, Université Jean Monnet, Saint-Etienne, France  
Dissertation on "Adaptive multiagent systems: engineering and problem solving"
- 2004 **PhD in Computer Science**, Université Paul Sabatier, Toulouse, France  
Dissertation on "Multiagent-oriented methodology for self-organizing systems"
- 2001 **Master in Artificial Intelligence**, Université Paul Sabatier, Toulouse, France  
Dissertation on "Cooperative self-organization for collective robotics"
- 2000 **Maîtrise in Computer Science**, Université Paul Sabatier, Toulouse, France
- 1999 **Licence (BSc) in Computer Science**, Université Paul Sabatier, Toulouse, France
- 1995 **Baccalauréat in Maths & Physics**, Lycée Blaise Pascal, Clermont-Fd, France

## Experience & Positions

- 2022+ **Directeur de Recherche / Senior Research Scientist**, ONERA, Toulouse, France
  - Member of Information processing and systems Department (DTIS)
  - Member of EDO Team (Requirements, Decision and Optimization)
  - Head of Artificial Intelligence Lab at ONERA (AILab)
  - *Research topics*: Multi-agents systems, distributed optimization, Resource and task allocation, Hybrid AI and Decision-focused Learning, Self-organisation, collective robotics, space systems, UAVs
  - *Research projects*: ANR AGREENET (2025-2029, PI), ANR OMNEOS (2025-2029), FED SPIDER (2025-2026), PR ASETIAH (2024-2027), PRF SICICOD (2024-2028, coordinator), HE DOMINO-E (2022-2025, PI), ANR PARHéRo (2021-2024), PSPC LiChIE (2020-2023)
- 2020–2022 **Research Scientist**, ONERA, Toulouse, France
  - Member of Information processing and systems Department (DTIS)
  - Member of EDO Team (Requirements, Decision and Optimization)
  - *Research projects*: HE DOMINO-E (2022-2025, PI), ANR PARHéRo (2021-2024), PSPC LiChIE (2020-2023)
- 2018+ **Full Professor (on secondment to ONERA)**, Ecole des Mines, Saint-Etienne, France
  - Computer Science and Intelligent Systems Department, Henri Fayol Institute
  - On secondment to ONERA since 2020
- 2015–2020 **Researcher**, Laboratoire Hubert Curien UMR CNRS 5516, Saint-Etienne, France
  - Member of Multi-Agent and Services project of the Connected Intelligence team
  - *Research topics*: Artificial intelligence, Multi-agent systems, self-organization, constraint satisfaction and optimization, smart grids, intelligent transport systems
  - *Research projects*: ANR ETHICAA (2013-2016), ITEA2 SEAS (2013-2016, PI)

- 2007–2018 **Associate Professor**, *Ecole des Mines*, Saint-Etienne, France
- Computer Science and Intelligent Systems Department, Henri Fayol Institute
  - *Educational topics*: Object-oriented programming with Java, Object-oriented Analysis and Design with UML, Artificial Intelligence, Logics
  - *Research topics*: Artificial intelligence, multi-agent systems, self-organization, constraint satisfaction and optimization, robotics, smart grids, intelligent transport systems
  - *Research projects*: ANR ETHICAA (2013-2016), ITEA2 SEAS (2013-2016, PI), ANR ID4CS (2009-2013, PI), CMIRA-RRA MAOP (2012-2012), ISLE-RRA WI (2008-2012)
- 2006–2007 **Research Engineer**, *IRIT CNRS UMR 5505, Université Paul Sabatier*, Toulouse, France
- *Responsibilities*: european projects arrangement & management, european relations
  - *Research topics*: Multi-agent systems, self-organization, constraint satisfaction and optimization, robotics
- 2004–2006 **Assistant Lecturer (ATER)**, *Université Paul Sabatier*, Toulouse, France
- *Educational topics*: Multi-agent systems, parallelism (C, JAVA), operating systems (UNIX, Linux and Windows), software engineering (Rational Rose, Eclipse), imperative and functional programming (CAML), artificial intelligence (CAML)
  - *Research topics*: Multi-agent systems, self-organization, constraint satisfaction and optimization, robotics
  - *Research projects*: RNTL ADELFE (2000-2003)
- 2001–2004 **Research Assistant and Teaching Assistant (Moniteur)**, *Université Paul Sabatier*, Toulouse, France
- *PhD student*, national funding due to merit
  - *Educational topics*: same as above
  - *Research topics*: Multi-agent systems, self-organization, agent-oriented software engineering
  - *Research projects*: RNTL ADELFE (2000-2003)
    - *Developments and modelling*: distributed time tabling solver (french national project ADELFE), collective robotics simulation platform, ADELFE platform, OpenTool enhancement to agent-oriented design
    - *Modelling* of an aeronautical mechanical design tool (european project SYNAMEC)
    - UML enhancement to multiagent-oriented design
    - *Partnership* with TNI-Valiosys

### Temporary

- 2021+ **Adjunct Instructor in Computer Science**, *ISAE-SUPAERO*, Toulouse, France
- *Educational topics*: linear optimization, combinatorial optimization, complexity theory
- 2021+ **Adjunct Instructor in Computer Science**, *Université Jean Jaurès*, Toulouse, France
- *Educational topics*: distributed constraint processing, optimization
- 2018–2020 **Visiting Researcher**, *IRIT, CNRS*, Toulouse, France

### Associations

- 2024–2028 **Board Member**, *International Foundation for Autonomous Agents and Multi-Agent Systems (IFAAMAS)*
- Elected member
  - Awards Committee member
- 2018–2025 **Board Member**, *French Association for Artificial Intelligence (AFIA)*
- Elected member
  - Coordinator of the Education working group (2018-2023)
  - Supervisor of the Agents and Multi-Agent college

## Teaching Activities

### Responsibilities

- 2019–2020 **Artificial Intelligence** (160h, Master 1-2), *Ecole des Mines*, Saint-Etienne, France
- <http://www.emse.fr/~picard/cours/ai/>
- 2017–2020 **Distributed and mobile computing** (25h, Master 1-2), *Ecole des Mines*, Saint-Etienne, France
- 2016–2020 **Master Program on Cyber-Physical and Social Systems** (Master 1-2), *Ecole des Mines*, Saint-Etienne, France
- <http://www.emse.fr/~picard/cours/cps2/>
- 2016–2020 **Multi-Agent Coordination** (25h, Master 1-2), *Ecole des Mines*, Saint-Etienne, France

- 2016–2018 **Internet-of-Things** (40h, Master 2), *Ecole des Mines*, Saint-Etienne, France  
 ○ <http://www.emse.fr/~picard/cours/iot/>
- 2014–2018 **Artificial Intelligence** (80h, Master 1), *Ecole des Mines*, Saint-Etienne, France  
 ○ <http://www.emse.fr/~picard/cours/ai/>
- 2014–2018 **Introduction to Formal Logics** (Licence 3), *Ecole des Mines*, Saint-Etienne, France
- 2014–2016 **Ambient Computing** (Master 2), *Ecole des Mines*, Saint-Etienne, France  
 ○ <http://www.emse.fr/~picard/cours/ac/>
- 2010–2014 **Information System Development** (Master 1), *Ecole des Mines*, Saint-Etienne, France  
 ○ <http://www.emse.fr/~picard/cours/devsi/>
- 2010–2014 **Object-oriented Programming** (Licence 3), *Ecole des Mines*, Saint-Etienne, France  
 ○ <http://www.emse.fr/~picard/cours/1A/java/>
- 2008–2014 **ICT Project Management** (Master 1), *Ecole des Mines*, Saint-Etienne, France  
 ○ <http://www.emse.fr/~picard/cours/2A/svn-trac/>  
 ○ <http://www.emse.fr/~picard/cours/2A/gp/>
- 2011–2012 **Introduction to Artificial Intelligence** (Licence 3), *Ecole des Mines*, Saint-Etienne, France  
 ○ <http://www.emse.fr/~picard/cours/1A/IA/>

### Teaching Duties

- 2021+ **Distributed Constraint Processing** (12h, Master 2), *Université Jean Jaurès*, Toulouse, France  
 ○ <https://www.gauthier-picard.info/files/lecture-DCSP-2021.pdf>
- 2021+ **(Integer) Linear Programming** (16h, Master 1), *ISAE-SUPAERO*, Toulouse, France
- 2021+ **Computational Complexity** (4h, Master 1), *ISAE-SUPAERO*, Toulouse, France
- 2021+ **Optimization for Space Systems** (20h, Master 2), *ISAE-SUPAERO*, Toulouse, France
- 2014–2020 **Ingénieur civil des Mines Curriculum**, *Ecole des Mines*, Saint-Etienne, France  
 ○ Licence 3: Introduction à l'informatique (langage C), Introduction à la logique formelle, Programmation orientée objet (Java)  
 ○ Master 1: Intelligence artificielle  
 ○ Master 2: Informatique ambiante (Android), Introduction aux smart grids, Projets industriels, Projets recherche
- 2014–2020 **Master Web Intelligence**, *Ecole des Mines*, Saint-Etienne, France  
 ○ Master 2: Système multiagents, Résolution et optimisation multiagents (Jason)
- 2007–2014 **Ingénieur civil des Mines Curriculum**, *Ecole des Mines*, Saint-Etienne, France  
 ○ Licence 3: Introduction à l'informatique, langages et concepts de programmation (langage C), systèmes d'information (MySQL, OpenOffice), Langages et concepts de programmation orientée objet (Java)  
 ○ Master 1: Analyse et conception (UML), Gestion de projets informatiques, Développement de systèmes informatiques (Postgres, J2E, Django, Rails, Android)  
 ○ Master 2: Système multiagents, Auto-organisation (NetLogo), Résolution et optimisation multiagents (Jason)
- 2007–2011 **Mastère Spécialisé en Génie Logiciel**, *Ecole des Mines*, Saint-Etienne, France  
 ○ Master 1: Analyse et conception (UML), J2EE, Projet de développement informatique
- 2001–2006 **Maîtrise en informatique**, *Université Paul Sabatier*, Toulouse, France  
 ○ Master 1: Intelligence artificielle (CAML), Programmation avancée Java, Programmation parallèle (C, Java), Analyse et conception (UML, Rationale Rose), Robotique collective
- 2001–2006 **Licence en sciences**, *Université Paul Sabatier*, Toulouse, France  
 ○ Licence 1 et 2: Systèmes d'exploitation (UNIX), Introduction à l'informatique, Introduction à la programmation (Turbo Pascal), Programmation fonctionnelle (CAML), Traitement de texte (OpenOffice)
- 2001–2006 **IUP en Technologies et méthodologie du médical**, *Université Paul Sabatier*, Toulouse, France  
 ○ Master 1: Intelligence artificielle (systèmes experts, apprentissage)

### Tutorials

- 2025 **Multi-agent Coordination using Distributed Constraint Optimization and Auction-based Techniques**, *PFIA*, Dijon, France  
 ○ [https://drive.google.com/file/d/1pxhW8Dr5sdfirgTPQQ7FypYkd\\_j09XAn/view](https://drive.google.com/file/d/1pxhW8Dr5sdfirgTPQQ7FypYkd_j09XAn/view)

**Multi-agent Task Allocation Application to Earth Observation and Multi-Robot Exploration**, SPACERAISE, L'Aquila, Italy

○ <https://drive.google.com/file/d/1Rvh9SE318kxjkb0Q0rnyEjyC0J9fsRj/view>

2024 **Multi-Agent Distributed Constrained Optimization**, AAMAS, Auckland, New Zealand

○ <https://www.gauthier-picard.info/dcop-tutorial/>

2023 **Multi-Agent Distributed Constrained Optimization**, AAMAS, London, United Kingdom

○ <https://www.gauthier-picard.info/dcop-tutorial/>

2022 **Multi-Agent Distributed Constrained Optimization**, AAMAS, Auckland (Online), New Zealand

○ <https://www.gauthier-picard.info/dcop-tutorial/>

2020 **Distributed Constraint Optimization for the Internet-of-Things**, ECAI, Santiago de Compostela (Online), Spain

○ <https://www.emse.fr/~picard/dcop4iot/>

2020 **Distributed Constraint Optimization for the Internet-of-Things**, PFIA, Angers (Online), France

○ <https://pfia2020.fr/tutoriels/programmetutoriels/>

2019 **Distributed Constraint Optimization for the Internet-of-Things**, PFIA, Toulouse, France

○ <https://www.irit.fr/pfia2019/tutoriels/>

2019 **Multi-agent Distributed Constrained Optimization**, AAMAS, Toulouse, France

○ <https://www2.isye.gatech.edu/~fferdinando3/cfp/AAMAS19/>

2018 **Distributed Constraint Optimization for the Internet-of-Things**, EASSS, Maastricht, Netherlands

○ <https://project.dke.maastrichtuniversity.nl/easss/>

2010 **Self-organization and multi-agent systems**, EASSS, Saint-Etienne, France

○ <https://events.mines-stetienne.fr/easss2010/programme.php>

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## Committees and Reviewing Activities

### Responsibilities

2026 **Program Chair** at International Workshop on Autonomous Agents and Multi-Agent Systems for Space Applications (MASSpace'26)

2025 **Chair** of Journée Défense et IA at Plate-forme d'Intelligence Artificielle (PFIA'25)

2024 **Program Chair** at International Workshop on Autonomous Agents and Multi-Agent Systems for Space Applications (MASSpace'24)

**Chair** of Atelier Défense et IA at Conférence Nationale en Intelligence Artificielle (CNIA'24)

2023 **Chair** at Journée Enseignement et Formation en IA (EFIA'23)

2022 **Chair** at Journée Enseignement et Formation en IA (EFIA'22)

2021 **Program Chair** at Workshop on Optimization and Learning in Multiagent Systems (OptLearn-MAS'21)

**Tutorial Chair** at Plate-Forme Intelligence Artificielle (PFIA'21)

**Chair** at Journée Enseignement et Formation en IA (EFIA'21)

2020 **Tutorial Chair** at Plate-Forme Intelligence Artificielle (PFIA'20)

2019 **Tutorial Chair** at Plate-Forme Intelligence Artificielle (PFIA'19)

**Chair** at Journée Enseignement et Formation en IA (EFIA'19)

2018–2023 **Steering Committee Member** of Journées Francophones sur les Systèmes Multi-Agents (JFSMA)

2018 **Program Chair** at Journées Francophones sur les Systèmes Multi-Agents (JFSMA'18)

2016 **Program Chair** et IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'16)

2015 **Workshop Chair** at IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'15)

- 2014 **Doctoral Consortium Chair** at IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'14)
- 2012 **Organization Chair** at IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'12)
- 2011 **Demonstrations Chair** at IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT'11)  
**Session Chair** at congrès annuel de la Société française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF'11, Session on MDO)
- 2009 **Program Chair** at Workshop on Engineering Societies in the Agents World (ESAW'09)
- 2008–2011 **Steering Committee Member** of ESAW (Engineering Societies in the Agents World)
- 2008 **Program Chair** at Workshop on Engineering Societies in the Agents World (ESAW'08)
- 2007 **Session Chair** at Indian International Conference on Artificial Intelligence (IICAI'07, Session on Multi-Agent Systems)

#### Event Organization Participation

- 2015 **Local Organization Committee Member** of the Journées Francophones sur les Systèmes Multi-Agents (JFSMA'15)
- 2012 **Organization Chair** of the IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'12)
- 2011 **Local Organization Committee Member** of the IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT'11)
- 2010 **Local Organization Committee Member** of 12th European Agent Systems Summer School (EASSS'10)  
**Local Organization Committee Member** of the Multi-Agent Logics, Languages, and Organisations Federated Workshops (MALLOW'10)
- 2009 **Organization Committee Member** of the 10th international workshop Engineering Societies in the Agents' World (ESAW'09)  
Web Intelligence Summer School (WI'09)
- 2008 **Local Organization Committee Member** of the 9th international workshop Engineering Societies in the Agents' World (ESAW'08)
- 2007 **Local Organization Committee Member** of the Journées Francophones sur les Systèmes Multi-Agents (JFSMA'07)
- 2004 **Local Organization Committee Member** of the 5th international workshop Engineering Societies in the Agents' World (ESAW'04)

#### Journals

- 2024+ **Board Member** of the Artificial Intelligence Journal (AIJ)
- 2006+ **Reviewer** Autonomous Agents and Multi-Agent Systems Journal (JAAMAS)  
**Reviewer** for Journal of Artificial Intelligence Research (JAIR)  
**Reviewer** for ACM Transactions on Autonomous and Adaptive Systems (TAAS)  
**Reviewer** for Revue Ouverte en Intelligence Artificielle (ROIA)  
**Reviewer** for Annals of Mathematics and Artificial Intelligence (AMAI)  
**Reviewer** for Computational Intelligence (COIN)  
**Reviewer** for Journal of Control  
**Reviewer** for Future Generation Computer Systems Journal (FGCS)  
**Reviewer** for International Journal of Agent-Oriented Software Engineering (IJAOSE)  
**Reviewer** for Revue d'Intelligence Artificielle (RIA)  
**Reviewer** for Simulation Modelling Practice and Theory Journal (SIMPAT)  
**Reviewer** for Web Intelligence An International Journal (WIC)  
**Reviewer** for International Journal of Production Research (IJPR)



## Program Committees

### 2026 Area Chair

- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'26)

### Senior Programme Committee Member

- International Joint Conference on Artificial Intelligence (IJCAI-ECAI'26)

### Program Committee Member

- International Conference on Autonomous Agents and Multi-Agent Systems, Demonstration Track (AAMAS'26)
- International Workshop on Optimization and Learning for Multi-Agent Systems (OptLearnMAS'26)
- International Workshop on Causal Learning and Reasoning in Agents and Multi-Agent Systems (CLaRAMAS'26)
- Journées Francophones sur les Systèmes Multi-Agents (JFSMA'26)
- Conférence Nationale en Intelligence Artificielle (CNIA'26)

### 2025 Area Chair

- International Joint Conference on Artificial Intelligence (IJCAI'25)

### Senior Program Committee Member

- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'25)

### Program Committee Member

- European Conference on Artificial Intelligence (ECAI'25)
- International Conference on Principles and Practice of Multi-Agent Systems (PRIMA'25)
- International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'25)
- International Workshop on Planning & Scheduling for Space (IWSPSS'25)
- International Conference on Autonomous Agents and Multi-Agent Systems Demo Track (AAMAS'25)
- Journées Francophones sur les Systèmes Multi-Agents (JFSMA'25)

### 2024 Program Chair

- International Workshop on Autonomous Agents and Multi-Agent Systems for Space Applications (MASSpace'24)

### Program Committee Member

- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'24)
- Conférence Nationale sur les Applications Pratiques de l'Intelligence Artificielle (APIA'24)
- European Conference on Artificial Intelligence (ECAI'24)
- International Joint Conference on Artificial Intelligence (IJCAI'24)
- Journées Francophones sur les Systèmes Multi-Agents (JFSMA'24)
- International Workshop on Optimization and Learning for Multi-Agent Systems (OptLearnMAS'24)
- International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'24)
- International Conference on the Principles and Practice of Multi-Agent Systems (PRIMA'24)

### 2023 Senior Program Committee Member

- European Conference on Artificial Intelligence (ECAI'23)

### Program Committee Member

- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'23)
- International Joint Conference on Artificial Intelligence (IJCAI'23)
- Journées Francophones sur les Systèmes Multi-Agents (JFSMA'23)
- International Workshop on Optimization and Learning for Multi-Agent Systems (OptLearnMAS'23)
- International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'23)
- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'23, Blue Sky Ideas)

### 2022 Program Committee Member

- International Symposium on Distributed Autonomous Robotic Systems (DARS'22)
- International Workshop on Optimization and Learning for Multi-Agent Systems (OptLearnMAS'22)
- IEEE International Conference on Autonomic Computing and Self-Organizing Systems (ACSOS'22)
- Portuguese Conference on Artificial Intelligence (EPIA'22)
- International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'22)
- International Workshop on EXplainable and TRANSPARENT AI and Multi-Agent Systems (EXTRAAMAS'22)
- International Joint Conference on Artificial Intelligence (IJCAI-ECAI'22)
- ACM Web Conference (The WebConf'22)
- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'22)
- AAAI Conference on Artificial Intelligence (AAAI'22)

- 2021 **Program Chair**
- International Workshop on Optimization and Learning for Multi-Agent Systems (OptLearnMAS'21)
- Program Committee Member**
- IEEE International Conference on Autonomic Computing and Self-Organizing Systems (ACSOS'21)
  - International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'21)
  - International Workshop on EXplainable and TRANsparent AI and Multi-Agent Systems (EXTRAAMAS'21)
  - International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'21)
  - International Joint Conference on Artificial Intelligence (IJCAI'21)
  - AAAI Conference on Artificial Intelligence (AAAI'21)
- 2020 **Program Committee Member**
- ACM Web Conference (The WebConf'20)
  - International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'20)
  - AAAI Conference on Artificial Intelligence (AAAI'20)
  - European Conference on Artificial Intelligence (ECAI'20)
  - IEEE International Conference on Autonomic Computing and Self-Organizing Systems (ACSOS'20)
  - International Joint Conference on Artificial Intelligence (IJCAI'20)
- 2019 **Program Committee Member**
- Portuguese Conference on Artificial Intelligence (EPIA'19)
  - International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'19)
  - International Workshop on EXplainable and TRANsparent AI and Multi-Agent Systems (EXTRAAMAS'19)
  - International Conference on Principles and Practice of Constraint Programming (CP'19)
  - IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'19)
  - International Workshop on Optimization for Multi-Agent Systems (OPTMAS'19)
  - Journées Francophones sur les Systèmes Multi-Agents (JFSMA'19)
  - International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'19)
  - AAAI Conference on Artificial Intelligence (AAAI'19)
  - International Conference on Agents and Artificial Intelligence (ICAART'19)
  - International Joint Conference on Artificial Intelligence (IJCAI'19)
- 2018 **Program Committee Member**
- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'18)
  - AAAI Conference on Artificial Intelligence (AAAI'18)
  - International Conference on Agents and Artificial Intelligence (ICAART'18)
  - ACM Web Conference (WWW'18, Demo Track)
  - AAAI Conference on Artificial Intelligence (SmartIoT@AAAI'18)
  - International Joint Conference on Artificial Intelligence (IJCAI-ECAI'18)
  - International Conference on Computers, Communications, and Systems (ICCS'18)
  - International Conference on Principles and Practice of Constraint Programming (CP'18)
  - International Workshop on Optimization for Multi-Agent Systems (OPTMAS'18)
- 2017 **Program Committee Member**
- International Joint Conference on Artificial Intelligence (IJCAI'17)
  - International Workshop on Optimization for Multi-Agent Systems (OPTMAS'17)
  - IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'17)
  - Journées Francophones sur les Systèmes Multi-Agents (JFSMA'17)
  - International Conference on the Principles and Practice of Multi-Agent Systems (PRIMA'17)
  - International Workshop on Self-Adaptive and Self-Organising Socio-Technical Systems (SASO<sup>ST</sup>'17)
- 2016 **Program Committee Member**
- International Workshop on Multi-Agent Systems and Simulation (MAS&S'16)
  - Ibero-American Conference on AI (IBERAMIA'16)
  - International Workshop on Optimization for Multi-Agent Systems (OPTMAS'16)
- 2015 **Program Committee Member**
- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'15)
  - International Symposium on Methodologies for Intelligent Systems (ISMIS'15)
  - Journées Francophones sur les Systèmes Multi-Agents (JFSMA'15)
  - International Workshop on Multi-Agent Systems and Simulation (MAS&S'15)
  - IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'15)

**2014 Program Committee Member**

- International Conference on High Performance Computing & Simulation (AHPC'14)
- International KES Conference on Agents and Multi-agent Systems, Technologies and Applications (AMSTA'14)
- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'14)
- International Workshop on Multi-Agent Systems and Simulation (MAS&S'14)

**2013 Program Committee Member**

- IEEE International Conference on Robotics and Automation (ICRA'13)
- International Joint Conference on Artificial Intelligence (IJCAI'13)
- Journées Francophones sur les Systèmes Multi-Agents (JFSMA'13)

**2012 Program Committee Member**

- Journées Francophones sur les Systèmes Multi-Agents (JFSMA'12)
- IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'12)
- International Workshop on Agent-Oriented Software Engineering (AOSE'12)
- International Workshop on Multi-Agent Systems and Simulation (MAS&S'12)
- International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'12)

**2011 Program Committee Member**

- International Workshop on Agent-Oriented Software Engineering (AOSE'11)
- International Design Engineering Technical Conferences and Computers and Information in Engineering Conference (IDETC'11)
- Indian International Conference on Artificial Intelligence (IICAI'11)
- IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'11)

**2010 Program Committee Member**

- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'10)
- Workshop on Bio-Inspired and Self-\* Algorithms for Distributed Systems (BADS'10)
- International Workshop on Agent-Oriented Software Engineering (AOSE'10)
- IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'10)
- International Workshop on Web Intelligence & Communities (WIVE'10)

**2009 Program Committee Member**

- Workshop on Bio-Inspired and Self-\* Algorithms for Distributed Systems (BADS'09)
- Workshop on Self-Adaptation for Robustness and Cooperation in Holonic MultiAgent Systems and in MultiAgent Systems (SARC'09)
- Indian International Conference on Artificial Intelligence (IICAI'09)
- International Conference on Intelligent Agent & Multi-Agent Systems (IAMA'09)
- IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'09, posters),

**2008 Program Committee Member**

- Workshop on Self-Adaptation for Robustness and Cooperation in Holonic MultiAgent Systems and in MultiAgent Systems (SARC'08)

**2007 Program Committee Member**

- Indian International Conference on Artificial Intelligence (IICAI'07)
- Rencontres des Jeunes Chercheurs en Intelligence Artificielle (RJCIA'07)

**2005 Program Committee Member**

- European Workshop on Multi-Agent Systems (EUMAS'05)

**2004 Program Committee Member**

- International Workshop on Engineering Societies in the Agents World (ESAW'04)
- European Workshop on Multi-Agent Systems (EUMAS'04)

**2005–2012 Extra reviewer** for AAI'12, WI-IAT'11, ICRA'10, AOSE'09, ISA'09, AAMAS'08, COIN@AAMAS'08, AOMP'08, APSLA'08, SBIA'08, RFIA'08, COIN@AAMAS'08, AAMAS'05

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## Research Projects

**2025–2029 AGREENET, ANR**

From Agriculture to AGRoEcology: A Resilient and Adaptive Connectivity FramEwork for a TechNology-Driven, Sustainable, and EnvironmenTally-Friendly Agriculture

- Role: PI, expert on multi-agent systems and task allocation
- Cooperation with IRIT, INRAE, LIMOS and LPCA



- 2025–2029 **OMNEOS**, ANR  
Optimization for the Management of Newspace Earth Observation Satellites  
  - Role: expert on task allocation, planning and scheduling
  - Cooperation with LAAS-CNRS and Prométhée Earth Intelligence
- 2025–2027 **SPIDER**, *European Defense Fund*  
Space based Persistent ISR for Defence and Europe Reinforcement  
  - Role: expert on algorithmics and ground segment
  - [https://defence-industry-space.ec.europa.eu/system/files/2023-06/SPIDER-Factsheet\\_EDF22.pdf](https://defence-industry-space.ec.europa.eu/system/files/2023-06/SPIDER-Factsheet_EDF22.pdf)
- 2024–2028 **SICICOD**, *ONERA Federative Research Project*  
Cooperative and interactive intelligent multi-robot systems for conducting defense operations  
  - Role: coordinator
  - <https://w3.onera.fr/ailab/fr/projet/robotique-collective-et-perception-active-le-prf-sicicod>
- 2024–2028 **ASETIAH**, *ONERA Research Project*  
Accelerating, Securing and Extending Artificial Intelligence with Hybrid Methods  
  - Role: investigator on decision-focused learning
  - <https://w3.onera.fr/ailab/fr/projet/ia-hybride-le-pr-asetiah>
- 2023–2024 **PeriObs**, *CNES ITT*  
Algorithms for Periodic Earth Observation Requests  
  - Consortium: CNES, ADS, ONERA
  - Role: investigator on optimization techniques
- 2022–2025 **DOMINO-E**, *Horizon Europe*, 340k€  
Earth Observation Multi-mission Federation Layer, coordinated by Airbus Defence and Space  
  - Consortium: Airbus Defence and Space, Cap Gemini, ITTI, OIKOPLUS, ONERA, TILDE, VVA
  - Role: PI on Multi-Agent Resource Allocation
  - <https://domino-e.eu/>
- 2021–2024 **PARHéRo**, *ANR ASTRID*  
Hybrid planning and learning methods for robust heterogeneous robotics  
  - Consortium: Safran, ONERA, Université de Bordeaux
  - Role: investigator on multi-agent decisions and task allocation
  - <https://anr.fr/Projet-ANR-21-ASRO-0004>
- 2020–2023 **LiChIE**, *BPI PSPC*, 239k€  
LION Chaîne Image Elargie, coordinated by Airbus Defence and Space  
  - Role: investigator on multi-agent techniques for orbit sharing and observation coordination
- 2020 **HyperAgent**, *France-Switzerland ANR*  
The HyperAgents project aims to enable the deployment of world-wide hybrid communities of people and autonomous agents on the Web.  
  - Consortium: Mines Saint-Etienne, INRIA, University of St Gallen
  - Role: expertise in Distributed AI and Multiagent Systems
  - <https://project.hyperagents.org/>
- 2016–2019 **Collectiveware**, *Spanish Ministerio de Economía y Competitividad*  
This project targets novel technologies that empower human collectives to operate micro-grids to achieve sustainable energy management by supporting their self-awareness, cooperation, and self-governance.  
  - Collaborator and funder: IIIA-CSIC
  - [https://www.iiia.csic.es/en-us/research/project/?project\\_id=34](https://www.iiia.csic.es/en-us/research/project/?project_id=34)
- 2014–2017 **ETHICAA**, *French ANR*, 245k€  
ETHICs and Autonomous Agents  
  - Consortium: GREYC, Onera, LIP6, Télécom Ecole de Management, Ardans
  - Model and implementation of collective ethical mechanisms
  - <https://ethicaa.greyc.fr>

- 2013–2015 **SEAS, European ITEA2, 89k€**  
 Smart Energy Aware Systems: enabling interoperability of systems producing energy, ICT and automation systems in consumption sites  
 ○ Cooperation between 6 countries (Finland, France, Portugal, Romania, Spain, Turkey)  
 ○ Ontology for Smart Grids ; privacy in Smart Grids ; automatic negotiation  
 ○ <http://www.itea2.org/project/index/view?project=10156>
- 2010–2012 **MAOP, Région Rhône-Alpes**  
 Multi-Agent Oriented Programming for building complex software systems, in particular smart/intelligent decentralized systems  
 ○ Supervision of a Master Student from "Politehnica" University of Bucharest (ERASMUS)  
 ○ Cooperation with DEIS, Alma Mater Studiorum Università di Bologna  
 ○ Ambient Intelligence scenario description and prototype  
 ○ <http://iscod.emse.fr/maop/>
- 2009–2013 **ID4CS, French ANR**  
 Integrated Design for Complex Systems and Multi-Agents Systems  
 ○ Co-supervision of PhD student with University of Florida (multi-disciplinary optimization)  
 ○ Cooperation with IRT, Airbus, IMT, ICA, Upetec  
 ○ Coordinator of the agent modeling work package  
 ○ <http://www.irit.fr/id4cs>
- 2008–2012 **Web Intelligence, Région Rhône-Alpes**  
 The overall objective is to consolidate and structure the scientific community in Rhône-Alpes and synergy of cooperation on the topic of Web Intelligence  
 ○ Participation to the "Future Web" work package  
 ○ Organisation and demo chair of WI-IAT 2011  
 ○ <http://www.web-intelligence-rhone-alpes.org/>
- 2001–2004 **ADELFE, French RNTL**  
 Agent-oriented software engineering for adaptive and emergent multi-agent systems  
 ○ ADELFE is one of the most renowned agent-oriented methodology  
 ○ Development of AdelfeToolkit to help designers to follow the ADELFE process  
 ○ <http://www.irit.fr/ADELFE/>

## Supervision and Evaluation

### PhD Students

- 2025+ **Melvine NARGEOT**, *Adjustment of Simulated Controls for Helicopter Trajectory Guidance Using Deep Reinforcement Learning*, PhD Airbus Helicopters, supervised with Filippo Perotto [30%]
- 2024+ **Laura TRUJILLO**, *Multimodal trip allocation in a MaaS framework using adaptive multi-agent systems*, PhD ONERA-Occitanie Region, supervised with Elsy Kaddoum [50%]
- 2024+ **Lucas LIGNY**, *PERFECT: PERformant and Robust read-to-fly FLEet ConfiguraTion: from Robot to Mission Plan*, PhD DGA-ONERA, supervised with Élise Vareilles [35%] and Stéphanie Roussel [35%]
- 2024+ **Thibault ROUX**, *Reinforcement Learning under the Risk of Ruin*, PhD ONERA, supervised with Filippo Perotto [50%]
- 2024+ **Victor GUILLET**, *Distributed Decision Architecture for Multi-Robot Systems and Interactions*, PhD DGA-ONERA, supervised with Charles Lesire [50%] and Christophe Grand
- 2023+ **Romain BARRAULT**, *Optimisation and Machine Learning for Earth observation with weather uncertainties*, PhD CNES-ONERA, supervised with Cédric Pralet [50%]
- 2019–2022 **Alaa DAOUD**, *Decentralized On-Demand Resource Allocation for Autonomous Vehicle Fleets*, PhD EMSE, supervised with Flavien Balbo [33%] and Paolo Gianessi [33%]
- 2015–2018 **Pierre RUST**, *Spontaneous coordination of connected objects in the Internet of Things*, PhD Orange Labs, supervised with Fano Ramparany [50%]
- 2013–2016 **Syed GILLANI**, *Context-aware negotiation in a distributed environment of independent power producers*, PhD UJM, supervised with Frédérique Laforest [50%]

- 2011–2015 **Alexandru SORICI**, *Multi-Agent Context Management for Support of Ambient Computing Applications*, Joint PhD UPB-EMSE, supervised with Adina Florea (UPB) [25%] and Olivier Boissier [25%]
- 2009–2014 **Camille PERSSON**, *Agile governance in M2M networks*, PhD ANRT CIFRE Orange Labs/EMSE, supervised with Olivier Boissier [25%] and Fano Ramparany [30%]
- 2009–2013 **Reda YAICH**, *Adaptation and evolution of trust policies within virtual communities*, PhD EMSE, supervised with Olivier Boissier [25%] and Philippe Jaillon [30%]
- 2010–2013 **Diane VILLANUEVA**, *Uncertainty propagation in multi-agent and multi-disciplinary optimization*, Joint PhD UF-EMSE, supervised with Rodolphe Le Riche [33%] and Raphael Haftka (UF) [33%]

#### Master Students

- 2024 **Flavien MAS**, *Planning satellite observations for global monitoring of physical parameters*, ISAE-Supaéro
- 2023 **Victor GUILLET**, *Consensus-Based Auction Methods with Bid Intercession for SAR*, Master Aerospace Engineering TU Delft
- 2023 **Romain BARRAULT**, *Methods for solving multi-vehicle routing problems with time windows and time-dependent costs for satellite constellation management*, Master Parisien de Recherche Opérationnelle, ENSTA
- 2023 **Thomas SESMAT**, *Neuro-fuzzy networks with mixed weights*, INSA Toulouse
- 2022 **Jihanne EL HAOUARI**, *Earth Observation Satellite scheduling under weather uncertainties*, Master RO ENAC
- 2020 **Vincent COUSIN**, *QuaLAS: eco-friendly Quality of Life in Ambient Sociotechnical Systems*, Master DC Toulouse
- 2012 **Lucas CERQUEIRA MARTINS**, *Decentralized stable matching in mixed communities*, Master EMSE/UJM
- 2011 **Alexandru SORICI**, *Dynamic, reactive and pro-active context information aggregation in an AmI environment*, Master Universitatea Politehnica Bucuresti, EURAMUS
- 2011 **Mustapha BILAL**, *Multi-agent governance model for M2M networks: Application to a smart parking management system*, Master UTT, Orange Labs
- 2010 **Santiago VILLARREAL**, *Distributed constraint-based Optimisation and Social Choice*, Master EMSE/UJM
- 2008 **Gaël CLAIR**, *Self-organisation for manufacturing control based on multi-agent systems*, Master EMSE/UJM
- 2008 **Elsy KADDOUM**, *Self-regulation for manufacturing control using self-organising MAS*, Master IRIT/UPS
- 2006 **Florian CORNET**, *Study of a frequency assignment problem using adaptive multi-agent systems*, Master IRIT/UPS

#### Post-doctoral Researchers

- 2024–2025 **Hénoïk WILLOT**, *Federating Earth Observation Missions*, ONERA
- 2023–2024 **Alexis ROBBES**, *Satellite constellation sharing algorithms*, ONERA
- 2021–2022 **Sara MAQROT**, *Algorithms for fair sharing of satellite constellations*, ONERA
- 2012–2013 **Jeremy RIVIÈRE**, *Algorithms for finding local optima of expensive functions*, Mines Saint-Etienne

#### PhD Committees

- 2025 **Julien SOULÉ**, *On the Organization of a Cyberdefence Multi-Agent System (AICA)*, Université Grenoble Alpes, France, 2025, Nov 17<sup>th</sup>, **reviewer**
- Esra AL HADHRAMI**, *An Innovative Integration of JPDA-LSTM Synergy and Explainable AI for Enhanced Multi-Target Tracking and Radar Performance*, Sorbonne Université, France, 2025, Sep 19<sup>th</sup>, **reviewer**

- Valentin COLLIARD**, *Apprentissage par Renforcement Profond et Défense Aérienne : vers un outil d'aide à la décision robuste et explicable dans les centres de commande et de contrôle*, Sorbonne Université, France, 2025, Jul 15<sup>th</sup>, **chairman**
- 2024 **Ajdin SUMIC**, *Dealing with interdependent activities, uncertain durations, and semantic interoperability in the temporal coordination of multi-agent plans*, Université de Technologie de Tarbes, France, 2024, Dec 19<sup>th</sup>, **chairman**
- Hector ROUSSILLE**, *Multi Agent Deep Reinforcement Learning for Blockchain Systems*, CEA, Université de Montpellier, France, 2024, Dec 6<sup>th</sup>, **chairman**
- Déborah CONFORTO NEDELMANN**, *Vers le passage à l'échelle de l'allocation en ligne multi-agents multi-tâches*, Université de Toulouse, ISAE-Supaéro, France, 2024, Nov 26<sup>th</sup>, **chairman**
- Maxence DE ROCHECHOUART**, *Outil Multi-Agents collaboratif pour Meta-Senseur : Radar Principal avec Allocation de Ressources de Senseurs Auxiliaires pour une Surveillance Intégrée de l'Espace Aérien*, Sorbonne Université, France, 2024, Nov 4<sup>th</sup>, **reviewer**
- Ben RACHMUT**, *Communication Awareness in Multi-Agent Optimization*, Ben-Gurion University of the Negev, Israel, 2024, Aug 1<sup>st</sup>, **reviewer**
- Ellie BEAUPREZ**, *Système multi-agents adaptatif pour l'équilibrage de charge centré utilisateur*, Université de Lille, France, 2024, Jul 8<sup>th</sup>, **reviewer**
- Santiago MONTOYA ZAPATA**, *Optimisation de la performance globale de systèmes intelligents dans un environnement multi-agents*, École nationale supérieure d'Arts et Métiers, Lille, France, 2024, Jun 20<sup>th</sup>, **reviewer**
- Valentin POSTAT**, *Maillage hexaédrique structuré par blocs à l'aide de systèmes multi-agents avec apprentissage par renforcement*, Université Paris-Saclay, France, 2024, Jan 24<sup>th</sup>, **reviewer**
- 2023 **Parham SHAMS**, *Procedures based on Exchanges and new Relaxations of Envy-Freeness in Fair Division of Indivisible Goods*, Sorbonne Université, France, 2023, Dec 21<sup>st</sup>, **reviewer**
- Sharyal ZAFAR**, *Optimized management of an active distribution network using AMAS combined with the RL bandit method*, École normale supérieure de Rennes, France, 2023, Dec 15<sup>th</sup>, **reviewer**
- Jamy CHAHAL**, *Multi-drone patrol and observation of mobile targets*, Sorbonne Université, France, 2023, Nov 30<sup>th</sup>, **reviewer**
- Marc VINCENT**, *Reinforcement Learning for Multi-Function Radar Resource Management*, Sorbonne Université, France, 2023, Sep 9<sup>th</sup>
- Adrià FENOY BARCELÓ**, *Combining Optimization and Machine Learning for the Formation of Collectives*, Università degli Studi di Verona, Italy, 2023, Sep 28<sup>th</sup>, **reviewer**
- Henrique DONANCIO NUNES RODRIGUES**, *Deep reinforcement learning through imitation learning and curriculum learning : application to pump scheduling in water distribution networks*, Université de Normandie, France, 2023, Jun 6<sup>th</sup>, **reviewer**
- Paul BREUGNOT**, *Distribution and synchronisation of Multi-Agent Systems*, Université Bourgogne Franche-Comté, France, 2023, Mar 16<sup>th</sup>, **reviewer**
- 2022 **Alaa DAOUD**, *Coordination in Connected Autonomous Vehicle fleets : A Multiagent Resource Allocation Approach to Online On-Demand Transport*, Ecole des Mines de Saint-Etienne/Université de Lyon, France, 2022, Jan 17<sup>th</sup>, **supervisor**
- 2021 **Coen VAN LEEUWEN**, *Self-Organizing Multi-agent systems*, Delft Technical University, Netherlands, 2021, Feb 8<sup>th</sup>, **reviewer**
- 2018 **Thadeu TUCCI**, *Distributed algorithms for programmable matter : target shape description and self-assembly planning*, Université Bourgogne Franche-Comté, France, 2018, Nov 12<sup>th</sup>, **chairman**
- Francisco CRUZ**, *Enhancing Performance on Combinatorial Optimization Algorithms*, Universitat Autònoma de Barcelona, Spain, 2018, Oct 16<sup>th</sup>, **reviewer**
- Maxime VELAY**, *Distributed optimization methods for the management of the security of interconnected power systems*, Université Grenoble Alpes, France, 2018, Sep 25<sup>th</sup>, **reviewer**

- 2017 **Julien SAVAUX**, *Privacy in Distributed Constrained Problems for Utility-based Agents*, Université de Valenciennes et du Hainaut-Cambrésis, France, 2017, Oct 25<sup>th</sup>, **reviewer**
- Romaric BREIL**, *Multiagent system for air traffic self-structuring*, Université de Toulouse, France, 2017, Oct 3<sup>rd</sup>, **reviewer**
- Arcady RANTRUA**, *Massive simulation of virtual world by means of adaptative multi-agent system*, Université de Toulouse, France, 2017, Feb 3<sup>rd</sup>, **reviewer**
- 2016 **Anatasia DAMAMME**, *A multiagent approach for resource sharing problems*, Université Paris 6, France, 2016, Dec 12<sup>th</sup>, **reviewer**
- 2016 **Filippo BISTAFFA**, *Constraint Optimisation Techniques for Real-World Applications*, Università degli Studi di Verona, Italy, 2016, Apr 22<sup>nd</sup>, **reviewer**
- Syed GILLANI**, *Semantically-enabled stream processing and complex event processing over RDF graph streams*, Université de Lyon, France, 2016, Oct 4<sup>th</sup>, **supervisor**
- 2015 **Alexandru SORICI**, *Multi-Agent Based Context Management Middleware In Support of Ambient Intelligence Applications*, University Politehnica of Bucharest and Ecole Nationale Supérieure des Mines de Saint-Etienne, Romania/France, 2015, Sep 11<sup>th</sup>, **supervisor**
- Sergio ESPARCIA GARCÍA**, *Integrating driving forces into the development of Adaptive Virtual Organizations*, Universitat Politècnica de València, Spain, 2015, Feb 24<sup>th</sup>
- 2014 **Camille PERSSON**, *A Decentralized and Distributed Adaptive Governance for Machine-to-Machine Systems - A Multi-Agent Oriented Programming Approach*, Ecole Nationale Supérieure des Mines de Saint-Etienne, France, 2014, Oct 31<sup>st</sup>, **supervisor**
- Luc PONS**, *Self-tuning of game scenarios through self-adaptive multi-agent systems*, Université de Toulouse, France, 2014, Jul 7<sup>th</sup>
- 2013 **Reda YAICH**, *Adaptiveness and Social-Compliance in Trust Management - A Multi-Agent Based approach*, Ecole Nationale Supérieure des Mines de Saint-Etienne, France, 2013, Oct 29<sup>th</sup>, **supervisor**
- Tom JORQUERA**, *An adaptive multi-agent system for self-organizing continuous optimization*, Université de Toulouse, France, 2013, Oct 22<sup>nd</sup>
- Diane VILLANUEVA**, *Reliability Based Design Including Future Tests and Multi-Agent Approaches*, Ecole Nationale Supérieure des Mines de Saint-Etienne and University of Florida, France/USA, 2013, May 13<sup>th</sup>, **supervisor**
- 2008 **Sylvain ROUGEMAILLE**, *Ingénierie des systèmes multi-agents adaptatifs dirigée par les modèles*, Université de Toulouse, France, 2008, Oct 27<sup>th</sup>

#### Habilitation Committees

- 2025 **Guillaume LOZENGUEZ**, *Décision distribuée et sous incertitude appliquée aux systèmes cyber-physiques mobiles*, IMT Nord Europe, France, 2025, Oct 22<sup>nd</sup>, **chairman**
- 2024 **Frédéric ARMETTA**, *Autonomie et représentation de l'environnement*, Université de Lyon, France, 2024, Dec 2<sup>nd</sup>, **reviewer**

#### Awards and Distinctions

- 2025 **ECAI-25**, *Outstanding Program Committee Member*, Top 2-3%
- 2024 **AREA-24**, *Best Paper Award at 4th International Workshop on Agents and Robots for reliable Engineered Autonomy*
- 2023 **AAMAS-23**, *Outstanding Program Committee Member*, Top 2-3%
- 2022 **IJCAI-22**, *Distinguished Program Committee Member*, Top 2-3%
- PAIS-22**, *Best Paper Award at 11th International Conference on Prestigious Applications of Intelligent Systems*
- 2017 **OptMAS-17**, *Best Paper Award at the 8th Workshop on Optimisation in Multi-Agent Systems*
- ACAN-17**, *Best Paper Award at the Workshop on Agent-based Complex Automated Negotiations*



2003 **TAPOCS-03**, *Best Paper Award at the nternational Workshop on Theory And Practice of Open Computational Systems (TAPOCS) at 12th IEEE International Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE)*

## Publications

### Book Chapters

- [B1] GUESSOM, Zahia, MANDIAU, René, MATHIEU, Philippe, BOISSIER, Olivier, GLIZE, Pierre, HAMRI, Amine, PESTY, Sylvie, PICARD, Gauthier, SANSONNET, Jean-Paul, TESSIER, Catherine, and TRANVOUEZ, Erwan (2012). “Systèmes multi-agents et Simulation”. In: *Information, Interaction, Intelligence : le point sur le i[3]*. Cépaduès Editions, 2012, pp. 76–120. URL: <https://hal-amu.archives-ouvertes.fr/hal-01488019>.
- [B2] GLIZE, Pierre and PICARD, Gauthier (2011). “Self-Organisation in Constraint Problem Solving”. In: *Self-organizing Software: From Natural to Artificial Adaptation*. Ed. by G. SERUGENDO, M.-P. GLEIZES, and A. KARAGEORGOS. Natural Computing Series. Springer, 2011. Chap. 14, pp. 347–377. ISBN: 978-3-642-17348-6. DOI: 10.1007/978-3-642-17348-6\_14. URL: <http://www.springer.com/computer/ai/book/978-3-642-17347-9>. [Chapter on invitation – 1 review phase]
- [B3] BERNON, Carole, GLEIZES, Marie-Pierre, and PICARD, Gauthier (2009). “Méthodes orientées agent et multi-agent”. In: *Technologies des systèmes multi-agents et applications industrielles*. Ed. by A. EL FALLAH-SEGHRUCHNI and J.-P. BRIOT. Collection IC2. Hermès, 2009. Chap. 2, pp. 45–76. URL: <http://www.lavoisier.fr/livre/notice.asp?ouvrage=2138883>. [Chapter on invitation – 1 review phase]
- [B4] BERNON, Carole, CAMPS, Valérie, GLEIZES, Marie-Pierre, and PICARD, Gauthier (2005). “Engineering Self-Adaptive Multi-Agent Systems: the ADELFE Methodology”. In: *Agent-Oriented Methodologies*. Ed. by B. HENDERSON-SELLERS and P. GIORGINI. Idea Group Publishing, 2005. Chap. 7, pp. 172–202. DOI: 10.4018/978-1-59140-581-8.ch007. URL: <http://www.igi-global.com/book/agent-oriented-methodologies/62>. [Chapter on invitation – 2 review phases]
- [B5] PICARD, Gauthier and GLEIZES, Marie-Pierre (2004b). “The ADELFE Methodology – Designing Adaptive Cooperative Multi-Agent Systems”. In: *Methodologies and Software Engineering for Agent Systems*. Ed. by F. BERGENTI, M.-P. GLEIZES, and F. ZAMBONELLI. Vol. 11. Multiagent Systems, Artificial Societies, And Simulated Organizations. Kluwer Publishing, 2004. Chap. 8, pp. 157–176. ISBN: 1-4020-8057-3. DOI: 10.1007/1-4020-8058-1\_11. URL: <http://www.springerlink.com/content/ku3714781x30q625/>. [Chapter on invitation – 2 review phases]

### Book and Journal Editions

- [E1] PICARD, Gauthier, SABOURET, Nicolas, and SIMONIN, Olivier, eds. (2022b). *Revue Ouverte d'Intelligence Artificielle*. Vol. 3. 5-6. Cellule MathDoc/CEDRAM, 2022. DOI: 10.5802/roia.37en.
- [E2] PICARD, Gauthier, LANG, Christophe, and MARILLEAU, Nicolas, eds. (2018b). *Journées Francophones sur les Systèmes Multi-Agents (JFSMA'18) - Distribution et décentralisation*. Cépaduès, 2018, p. 250.
- [E3] VERCOUTER, Laurent and PICARD, Gauthier, eds. (2015). *Journées Francophones sur les Systèmes Multi-Agents (JFSMA'15) – Environnements socio-techniques*. Cépaduès, 2015.
- [E4] ALDEWERELD, Huib, DIGNUM, Virginia, and PICARD, Gauthier, eds. (2009). *Engineering Societies in the Agents World X - 10th International Workshop, ESAW 2009, Utrecht, The Netherlands, November 18-20, 2009*. Vol. 5881. Lecture Notes in Artificial Intelligence (LNAI). Springer, 2009, p. 258. ISBN: 978-3-642-10202-8. DOI: 10.1007/978-3-642-10203-5. URL: <http://www.springer.com/computer/ai/book/978-3-642-10202-8>.
- [E5] ARTIKIS, Alexander, PICARD, Gauthier, and VERCOUTER, Laurent, eds. (2008). *Engineering Societies in the Agents World IX - 9th International Workshop, ESAW 2008, Saint-Etienne, France, September 24-26, 2008, Revised Selected Papers*. Vol. 5485. Lecture Notes in Artificial Intelligence (LNAI). Springer, 2008, p. 281. ISBN: 978-3-642-02561-7. DOI: 10.1007/978-3-642-02562-4. URL: <http://www.springer.com/computer/ai/book/978-3-642-02561-7>.

### Journal Articles

- [A1] DAOUD, Alaa, BALBO, Flavien, GIANESSI, Paolo, and PICARD, Gauthier (2023a). “AV-OLRA : Une modélisation générique pour le problème de l'allocation des ressources dans le domaine du transport à la demande”. In: *Revue Ouverte d'Intelligence Artificielle 4.2 (2023)*, pp. 169–192. DOI: 10.5802/roia.61. URL: <https://roia.centre-mersenne.org/item/10.5802/roia.61.pdf>.
- [A2] PICARD, Gauthier (2023b). “Enchères et optimisation multiagent pour la planification de tâches d'observation dans une constellation de satellites”. In: *Revue Ouverte d'Intelligence Artificielle 4.2 (2023)*, pp. 147–168. DOI: 10.5802/roia.60. URL: <https://roia.centre-mersenne.org/item/10.5802/roia.60.pdf>.

- [A3] ROUSSEL, Stéphanie, PICARD, Gauthier, PRALET, Cédric, and MAQROT, Sara (2023b). “Conflicting Bundle Allocation with Preferences in Weighted Directed Acyclic Graphs: Application to Orbit Slot Allocation Problems”. In: *Systems* 11.6 (2023). ISSN: 2079-8954. DOI: 10.3390/systems11060297. URL: <https://www.mdpi.com/2079-8954/11/6/297>. [Q2, IF=2.895]
- [A4] PICARD, Gauthier, SABOURET, Nicolas, and SIMONIN, Olivier (2022a). “Introduction (EN)”. In: *Revue Ouverte d’Intelligence Artificielle* 3.5-6 (2022), pp. 419–421. DOI: 10.5802/roia.37en.
- [A5] RUST, Pierre, PICARD, Gauthier, and RAMPARANY, Fano (2022a). “Resilient Distributed Constraint Reasoning to Autonomously Configure and Adapt IoT Environments”. In: *ACM Transactions on Internet Technology* 22.4 (2022), pp. 1–31. DOI: <http://dx.doi.org/10.1145/3507907>. [Q1, IF=4.67]
- [A6] — (2022b). “Résilience et auto-réparation de processus de décisions multi-agents pour le développement d’environnements intelligents – Application à l’auto-configuration d’environnements intelligents”. In: *Revue Ouverte d’Intelligence Artificielle (ROIA)* 3.5-6 (2022), pp. 587–623. DOI: 10.5802/roia.44. URL: <https://roia.centre-mersenne.org/item/10.5802/roia.44.pdf>.
- [A7] CERQUIDES, Jesús, RODRÍGUEZ-AGUILAR, Juan Antonio, EMONET, Rémi, and PICARD, Gauthier (2021). “Solving highly cyclic distributed optimization problems without busting the bank: a decimation-based approach”. In: *Logic Journal of the IGPL* 29.1 (2021), pp. 72–95. ISSN: 1367-0751. DOI: 10.1093/jigpal/jzaa069. URL: <https://doi.org/10.1093/jigpal/jzaa069>. [Q1, IF=1.26]
- [A8] DAOUD, Alaa, BALBO, Flavien, GIANESSI, Paolo, and PICARD, Gauthier (2021d). “ORNInA: A Decentralized, Auction-based Multi-agent Coordination in ODT Systems”. In: *AI Communications* 34.1 (2021), pp. 37–53. DOI: 10.3233/AIC-201579. URL: <https://content.iospress.com/articles/ai-communications/aic201579>. [Q2, IF = 1.841]
- [A9] NAJJAR, Amro, MUALLA, Yazan, SINGH, Kamal, PICARD, Gauthier, CALVARESI, Davide, MALHI, Avleen, GALLAND, Stéphane, and FRÄMLING, Kary (2021). “One-to-Many Negotiation QoE Management Mechanism for End-user Satisfaction”. In: *IEEE Access* 9 (2021), pp. 59231–59243. DOI: 10.1109/ACCESS.2021.3071646. [Q1, IF=3.367]
- [A10] GILLANI, Syed, ZIMMERMANN, Antoine, PICARD, Gauthier, and LAFOREST, Frédérique (2019). “A Query Language for Semantic Complex Event Processing: Syntax, Semantics and Implementation”. In: *Semantic Web Journal* 10.1 (2019), pp. 53–93. DOI: 10.3233/SW-180313. [Q1, IF=3.524]
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