

# Gauthier PICARD

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[Updated on 22/07/2025]

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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/1Rvh9SE318kxjkb0QOrnyEjyC0J9fsRj/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>

## Committees and Reviewing Activities

### Responsibilities

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)
- 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 (IW PSS'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-ST'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 (IICAT'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 (IICAT'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 (IICAT'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 AAAI'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

## 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-1-e-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 Universita 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 renown agent-oriented methodology  
 ○ Development of AdelfeToolkit to help designers to follow the ADELFE process  
 ○ <http://www.irit.fr/ADELFE/>

## Supervision and Evaluation

### PhD Students

- 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 wearther 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 prosumers*, 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 Aml 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 KADDIOM**, *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 **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>, **chair**
- 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>, **chair**
- Hector ROUSSILLE**, *Multi Agent Deep Reinforcement Learning for Blockchain Systems*, CEA, Université de Montpellier, France, 2024, Dec 6<sup>th</sup>, **chair**
- 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>, **chair**
- 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>, **chair**
- 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 des 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

2024 **Frédéric ARMETTA**, *Autonomie et représentation de l'environnement*, Université de Lyon, France, 2024, Dec 2<sup>nd</sup>, **reviewer**

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## 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]
- [A11] PHAM TRAN ANH, Quang, SINGH, Kamal, BRADAI, Abbas, PICARD, Gauthier, and RIGGIO, Roberto (2019). "Adaptive Allocation Algorithms for Service Function Chains: Single and Multi-domain orchestration". In: *IEEE Transactions on Network and Service Management* 16.1 (2019), pp. 98–112. DOI: 10.1109/TNSM.2018.2876623. URL: <https://ieeexplore.ieee.org/document/8494813>. [Q1, IF=3.286]
- [A12] NAJJAR, Amro, PICARD, Gauthier, and BOISSIER, Olivier (2018c). "Négociation multi-agents résistante aux pics de charge pour améliorer l'acceptabilité des services d'un fournisseur SaaS ouvert". In: *Revue d'Intelligence Artificielle* 32.5-6 (2018), pp. 603–625. DOI: 10.3166/ria.32.603-625.
- [A13] PHAM TRAN ANH, Quang, SINGH, Kamal, RODRÍGUEZ-AGUILAR, Juan Antonio, PICARD, Gauthier, PIAMRAT, Kandaraj, CERQUIDES, Jesús, and VIHO, César (2018). "AD3-GLAM: A Cooperative Distributed QoE-based Approach for SVC Video Streaming over Wireless Mesh Networks". In: *Ad Hoc Networks* 80 (2018), pp. 1–15. DOI: 10.1016/j.adhoc.2018.07.005. URL: <https://www.sciencedirect.com/science/article/pii/S157087051830461X>. [Q1, IF=3.151]
- [A14] PICARD, Gauthier, BALBO, Flavien, and BOISSIER, Olivier (2018a). "Approches multiagents pour l'allocation de courses à une flotte de taxis autonomes". In: *Revue d'Intelligence Artificielle* 32.2 (2018), pp. 223–247. DOI: 10.3166/ria.32.223-247.

- [A15] CABRI, Giacomo, PICARD, Gauthier, and SURI, Niranjan (2017). “SASO 2016: Selected, Revised, and Extended Best Papers”. In: *ACM Transactions on Autonomous and Adaptive Systems (TAAS)* 12.3 (2017), pp. 1–3. DOI: 10.1145/3127332. [Q2, IF=1.216]
- [A16] YAICH, Reda, BOISSIER, Olivier, PICARD, Gauthier, and JAILLON, Philippe (2017). “Impact of Social Influence on Trust Management within Communities of Agents”. In: *Web Intelligence, An International Journal* 15.3 (2017), pp. 251–268. DOI: 10.3233/WEB-170361. [Q4, IF=0.89]
- [A17] GALLAND, Stéphane, BALBO, Flavien, GAUD, Nicolas, RODRÍGUEZ, Sebastian, PICARD, Gauthier, and BOISSIER, Olivier (2016). “Environnement multidimensionnel pour contextualiser les interactions des agents dans le cadre de la modélisation du trafic routier urbain”. In: *Revue d’Intelligence Artificielle* 30.1-2 (2016), pp. 81–108. DOI: 10.3166/RIA.30.81–108.
- [A18] SORICI, Alexandru, PICARD, Gauthier, BOISSIER, Olivier, ZIMMERMANN, Antoine, and FLOREA, Adina (2015d). “CONSERT : Applying Semantic Web Technologies to Context Modeling in Ambient Intelligence”. In: *Computers and Electrical Engineering - An International Journal* 44 (2015), pp. 280–306. DOI: 10.1016/j.compeleceng.2015.03.012. URL: <http://www.sciencedirect.com/science/article/pii/S0045790615000993>. [Q1, IF=4.163]
- [A19] YAICH, Reda, BOISSIER, Olivier, PICARD, Gauthier, and JAILLON, Philippe (2013). “Adaptiveness and Social-Compliance in Trust Management within Virtual Communities”. In: *Web Intelligence and Agent Systems (WIAS)* 11.4 (2013), pp. 315–338. DOI: 10.3233/WIA-130278. URL: <http://iospress.metapress.com/content/q2659685221703r7/?issue=4&genre=article&spage=315&issn=1570-1263&volume=11>. [Q4, IF=0.89]
- [A20] EVERAERE, Patricia, MORGE, Maxime, and PICARD, Gauthier (2012). “Casanova : un comportement d’agent pour l’équité des mariages préservant la privacité”. In: *Revue d’Intelligence Artificielle* 26.5 (2012), pp. 471–494. DOI: 10.3166/ria.26.471–494. URL: <http://ria.revuesonline.com/article.jsp?articleId=17808>.
- [A21] GLEIZES, Marie-Pierre, BERNON, Carole, MIGEON, Frédéric, and PICARD, Gauthier (2008). “Méthodes de développement de systèmes multi-agents”. In: *Génie Logiciel, GL & IS* 86 (2008), pp. 2–7.
- [A22] OTTENS, Kevin, PICARD, Gauthier, and CAMPS, Valérie (2006). “Transformation de modèles d’agents dans la méthode ADELFE : Des stéréotypes de conception à l’implémentation”. In: *Revue Technique et Science Informatique – L’objet* 12.4 (2006), pp. 43–72. DOI: 10.3166/objet.12.4.43–72. URL: <http://objet.e-revues.com/article.jsp?articleId=9174>.
- [A23] PICARD, Gauthier and GLIZE, Pierre (2006b). “Model and Analysis of Local Decision Based on Cooperative Self-Organization for Problem Solving”. In: *Multiagent and Grid Systems – An International Journal (MAGS)* 2.3 (2006), pp. 253–265. DOI: 10.3233/MGS-2006-2304. URL: <http://content.iospress.com/articles/multiagent-and-grid-systems/mgs00042>. [Q2, IF=0.96]
- [A24] PICARD, Gauthier, BERNON, Carole, CAMPS, Valérie, and GLEIZES, Marie-Pierre (2003a). “ADELFE : Atelier de développement de logiciels à fonctionnalité émergente”. In: *Revue Technique et Science Informatique* 22.4 (2003). Ed. by J.P. BRIOT and K. GHEDIRA, pp. 387–391. URL: <http://tsi.revuesonline.com/article.jsp?articleId=4789>.
- [A25] PICARD, Gauthier and GLEIZES, Marie-Pierre (2003b). “Outils pour la réalisation de systèmes multi-agents adaptatifs dans le cadre de la méthode ADELFE”. In: *Revue Technique et Science Informatique* 22.4 (2003). Ed. by J.P. BRIOT and K. GHEDIRA, pp. 249–253. URL: <http://tsi.revuesonline.com/article.jsp?articleId=4777>.

#### International Conferences (peer-reviewed)

- [C1] BARRAULT, Romain, PRALET, Cédric, PICARD, Gauthier, and SAWYER, Eric (2025b). “Hybridizing machine learning and optimization for planning satellite observations”. In: *International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR-25)*. 2025. [Core B – Pre-proceedings – 1 review phase]
- [C2] GUILLET, Victor, LESIRE, Charles, PICARD, Gauthier, and GRAND, Christophe (2025a). “Extending Consensus-based Task Allocation Algorithms with Bid Intercession to Foster Mixed-Initiative”. In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS-25)*. IFAAMAS, 2025, pp. 932–940. URL: <https://www.ifaamas.org/Proceedings/aamas2025/pdfs/p932.pdf>. [Core A\* – Pre-proceedings – 1 review phase]
- [C3] WILLOT, Hénôik, FARGES, Jean-Loup, PICARD, Gauthier, and PAVERO, Philippe (2025c). “Satellite Communication Resources Management in a Earth Observation Federation of Constellations”. In: *International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR-25)*. 2025. [Core B – Pre-proceedings – 1 review phase]

- [C4] FARGES, Jean-Loup, PEROTTO, Filippo, PICARD, Gauthier, PRALET, Cédric, DE LUSSY, Cyrille, GUERRA, Jonathan, PAVERO, Philippe, and PLANCHOU, Fabrice (2024a). “Going Beyond Mono-Mission Earth Observation: Using the Multi-Agent Paradigm to Federate Multiple Missions”. In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS-24)*. IFAAMAS, 2024, pp. 2674–2678. URL: <https://dl.acm.org/doi/10.5555/3635637.3663256>. [AR=23%] [Core A\* – Pre-proceedings – 1 review phase]
- [C5] HAMADI, Youssef and PICARD, Gauthier (2024b). “Towards Socially-Acceptable Multi-Criteria Resolution of the 4D-Contracts Repair Problem”. In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS-24)*. IFAAMAS, 2024, pp. 2297–2299. URL: <https://dl.acm.org/doi/10.5555/3635637.3663139>. [AR=23%] [Core A\* – Pre-proceedings – 1 review phase]
- [C6] DAOUD, Alaa, PICARD, Gauthier, ALQASIR, Hiba, GIANESSI, Paolo, and BALBO, Flavien (2023b). “Communication-wise Comparison of the Online Resource Allocation Methods in CAV Fleets”. In: *International Conference on Ambient Systems, Networks and Technologies (ANT-23)*. Vol. 220. Elsevier, 2023, pp. 299–306. DOI: 10.1016/j.procs.2023.03.039. [AR=31%]
- [C7] PICARD, Gauthier (2023c). “Multi-Agent Consensus-based Bundle Allocation for Multi-Mode Composite Tasks”. In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS-23)*. IFAAMAS, 2023, pp. 504–512. DOI: 10.5555/3545946.3598677. URL: <https://dl.acm.org/doi/10.5555/3545946.3598677>. [AR=23%] [Core A\* – Pre-proceedings – 1 review phase]
- [C8] MAQROT, Sara, ROUSSEL, Stéphanie, PICARD, Gauthier, and PRALET, Cédric (2022c). “Bundle Allocation with Conflicting Preferences Represented as Weighted Directed Acyclic Graphs – Application to Orbit Slot Ownership”. In: *Advances in Practical Applications of Agents, Multi-Agent Systems, and Complex Systems Simulation, The PAAMS Collection*. Ed. by Frank DIGNUM, Philippe MATHIEU, Juan Manuel CORCHADO, and Fernando De la PRIETA. Vol. 13616. LNAI. Springer, 2022, pp. 280–293. DOI: 10.1007/978-3-031-18192-4\_23.
- [C9] — (2022d). “Orbit Slot Allocation in Earth Observation Constellations”. In: *11th Conference on Prestigious Applications of Artificial Intelligence (PAIS’22), 25 July 2022, Vienna, Austria (co-located with IJCAI-ECAI 2022)*. Ed. by A. PASSERINI and T. SCHIEX. Vol. 351. Frontiers in Artificial Intelligence and Applications. IOS Press, 2022, pp. 3–16. DOI: 10.3233/FAIA220061. URL: <https://ebooks.iospress.nl/volumearticle/60355>. [CORE A – Pre-proceedings – 1 review phase – Conference best paper award]
- [C10] PICARD, Gauthier (2022a). “Auction-based and Distributed Optimization Approaches for Scheduling Observations in Satellite Constellations with Exclusive Orbit Portions”. In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS-22)*. IFAAMAS, 2022, pp. 1056–1064. DOI: <https://dl.acm.org/doi/10.5555/3535850.3535968>. [AR=26%] [Core A\* – Pre-proceedings – 1 review phase]
- [C11] — (2022c). “Trajectory Coordination based on Distributed Constraint Optimization Techniques in Unmanned Air Traffic Management”. In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS-22)*. IFAAMAS, 2022, pp. 1065–1073. DOI: <https://dl.acm.org/doi/10.5555/3535850.3535969>. [AR=26%] [Core A\* – Pre-proceedings – 1 review phase]
- [C12] DAOUD, Alaa, BALBO, Flavien, GIANESSI, Paolo, and PICARD, Gauthier (2021c). “A Generic Multi-Agent Model for Resource Allocation Strategies in Online On-Demand Transport with Autonomous Vehicles”. In: *Proceedings of the 20th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2021)*. Ed. by U. ENDRIS, A. NOWÉ, F. DIGNUM, and A. LOMUSCIO. Extended abstract. International Foundation for Autonomous Agents and Multiagent Systems, 2021, pp. 1489–1491. DOI: <https://dl.acm.org/doi/10.5555/3463952.3464135>. URL: <https://dl.acm.org/doi/10.5555/3463952.3464135>. [AR=40%] [Core A\* – Pre-proceedings – 1 review phase – Extended abstract]
- [C13] PICARD, Gauthier, CARON, Clément, FARGES, Jean-Loup, GUERRA, Jonathan, PRALET, Cédric, and ROUSSEL, Stéphanie (2021a). “Autonomous Agents and Multiagent Systems Challenges in Earth Observation Satellite Constellations”. In: *Proceedings of the 20th International Conference on Autonomous Agents and MultiAgent Systems*. Ed. by U. ENDRIS, A. NOWÉ, F. DIGNUM, and A. LOMUSCIO. AAMAS ’21. Virtual Event, United Kingdom: International Foundation for Autonomous Agents and Multiagent Systems, 2021, pp. 39–44. ISBN: 9781450383073. DOI: <https://dl.acm.org/doi/10.5555/3463952.3463961>. URL: <https://dl.acm.org/doi/10.5555/3463952.3463961>. [AR=28%] [Core A\* – Pre-proceedings – 1 review phase – Blue Sky Ideas paper]
- [C14] RUST, Pierre, PICARD, Gauthier, and RAMPARANY, Fano (2020). “Resilient Distributed Constraint Optimization in Physical Multi-Agent Systems”. In: *European Conference on Artificial Intelligence (ECAI)*. Vol. 325. Frontiers in Artificial Intelligence and Applications. IOS Press, 2020, pp. 195–202. DOI: 10.3233/FAIA200093. URL: [http://ecai2020.eu/papers/108\\_paper.pdf](http://ecai2020.eu/papers/108_paper.pdf). [Core A – Pre-proceedings – 1 review phase – Extended abstract]

- [C15] RUST, Pierre, PICARD, Gauthier, and RAMPARANY, Fano (2019a). “Installing Resilience in Distributed Constraint Optimization Operated by Physical Multi-Agent Systems”. In: *Autonomous Agents and Multiagent Systems (AAMAS)*. International Foundation for Autonomous Agents and Multiagent Systems, 2019, pp. 2177–2179. DOI: <https://dl.acm.org/doi/10.5555/3306127.3332049>. URL: <https://dl.acm.org/doi/10.5555/3306127.3332049>. [Core A\* – Pre-proceedings – 1 review phase – Extended abstract]
- [C16] CERQUIDES, Jesús, EMONET, Rémi, PICARD, Gauthier, and RODRÍGUEZ-AGUILAR, Juan Antonio (2018b). “Deci-MaxSum: Using Decimation to Improve Max-Sum on Cyclic DCOPs”. In: *Artificial Intelligence Research and Development - Current Challenges, New Trends and Applications, CCA 2018, 21st International Conference of the Catalan Association for Artificial Intelligence, Alt Empordà, Catalonia, Spain, 8-10th October 2018*. Ed. by Zoe FALOMIR, Karina GIBERT, and Enric PLAZA. Vol. 308. Frontiers in Artificial Intelligence and Applications. IOS Press, 2018, pp. 27–36. DOI: 10.3233/978-1-61499-918-8-27. [Pre-proceedings – 1 review phase]
- [C17] NAJJAR, Amro, BOISSIER, Olivier, and PICARD, Gauthier (2017b). “AQUAMan: An Adaptive QoE-Aware Negotiation Mechanism for SaaS Elasticity Management”. In: *Proceedings of the 16th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2017)*. Ed. by S. DAS, E. DURFEE, K. LARSON, and M. WINIKOFF. International Foundation for Autonomous Agents and Multiagent Systems, 2017, pp. 1655–1657. URL: <http://dl.acm.org/citation.cfm?id=3091282.3091394>. [Core A\* – Pre-proceedings – 1 review phase – Extended abstract]
- [C18] NAJJAR, Amro, MUALLA, Yazan, PICARD, Gauthier, and BOISSIER, Olivier (2017e). “Cost-aware User-centric Acceptability Rate Adaptation for SaaS Services Using Multi-agent Systems”. In: *IEEE/WIC/ACM International Conference on Web Intelligence (WI)*. ACM Press, 2017, pp. 331–339. DOI: 10.1145/3106426.3106485. URL: <http://webintelligence2017.com>. [AR=38.8%] [Core B – Pre-proceedings – 1 review phase]
- [C19] GILLANI, Syed, PICARD, Gauthier, and LAFOREST, Frédérique (2016a). “Continuous Graph Pattern Matching over Knowledge Graph Streams”. In: *10th ACM International Conference on Distributed and Event-Based Systems (DEBS)*. ACM, 2016, pp. 214–225. DOI: 10.1145/2933267.2933306. [AR=19%] [Pre-proceedings – 1 review phase]
- [C20] — (2016c). “SPECTRA: Continuous Query Processing for RDF Graph Streams Over Sliding Windows”. In: *International Conference on Scientific and Statistical Database Management (SSDBM’16)*. ACM, 2016. DOI: 10.1145/2949689.2949701. [AR=33%] [Core A – Pre-proceedings – 1 review phase]
- [C21] RUST, Pierre, PICARD, Gauthier, and RAMPARANY, Fano (2016b). “Using Message-passing DCOP Algorithms to Solve Energy-efficient Smart Environment Configuration Problems”. In: *Proceedings of the Twenty-Fifth International Joint Conference on Artificial Intelligence (IJCAI-16)*. Ed. by S. KAMBHAMPATI. AAAI Press, 2016, pp. 468–474. URL: <http://www.ijcai.org/Proceedings/2016/>. [AR=24%] [Core A\* – Pre-proceedings – 1 review phase]
- [C22] CERQUIDES, Jesús, PICARD, Gauthier, and RODRÍGUEZ-AGUILAR, Juan Antonio (2015c). “Defining and solving the energy allocation problem with continuous prosumers”. In: *Artificial Intelligence Research and Development - Proceedings of the 18th International Conference of the Catalan Association of Artificial Intelligence (CCA’15)*. Ed. by E. ARMENGOL, D. BOIXADER, and F. GRIMALDO. Vol. 277. Frontiers in Artificial Intelligence and Applications. Catalan Association for Artificial Intelligence. IOS Press, 2015, pp. 29–38. DOI: 10.3233/978-1-61499-578-4-29. URL: <http://ebooks.iospress.nl/volumearticle/40914>. [Pre-proceedings – 1 review phase]
- [C23] — (2015d). “Designing a marketplace for the trading and distribution of energy in the smart grid”. In: *14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*. International Foundation for Autonomous Agents and Multiagent Systems, 2015, pp. 1285–1293. URL: <http://www.aamas-conference.org/Proceedings/aamas2015/forms/contents.htm#I4>. [AR=24.9%] [Core A\* – Pre-proceedings – 1 review phase]
- [C24] GALLAND, Stéphane, BALBO, Flavien, GAUD, Nicolas, RODRÍGUEZ, Sebastian, PICARD, Gauthier, and BOISSIER, Olivier (2015a). “A multidimensional environment implementation for enhancing agent interactions”. In: *14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*. International Foundation for Autonomous Agents and Multiagent Systems, 2015, pp. 1801–1802. URL: <http://www.aamas-conference.org/Proceedings/aamas2015/>. [AR=46.8%] [Core A\* – Pre-proceedings – 1 review phase – Extended abstract]
- [C25] — (2015b). “Contextualize Agent Interactions by Combining Social and Physical Dimensions in the Environment”. In: *13th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS’15)*. Ed. by Yves DEMAIZEAU and Keith DECKER. Vol. 9086. Lecture Notes in Artificial Intelligence (LNAI). Springer, 2015, pp. 107–119. DOI: 10.1007/978-3-319-18944-4\_9. [AR=20.8%] [Core B – Pre-proceedings – 1 review phase]
- [C26] GILLANI, Syed, KAMMOUN, Abderrahmen, SUBERCAZE, Julien, SINGH, Kamal, PICARD, Gauthier, and LAFOREST, Frédérique (2015). “Top-K Queries in RDF Graph-based Stream Processing with Actors”. In: *ACM International Conference on Distributed Event-Based Systems (DEBS)*. ACM, 2015, pp. 293–300. DOI: 10.1145/2675743.2772587. [AR=19%] [Pre-proceedings – 1 review phase + 1 performance evaluation phase]

- [C27] PICARD, Gauthier, PERSSON, Camille, BOISSIER, Olivier, and RAMPARANY, Fano (2015). "Multi-agent Self-organization and Reorganization to Adapt M2M Infrastructures". In: *Ninth IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'15)*. IEEE Computer Society, 2015, pp. 91–100. doi: 10.1109/SASO.2015.17. [AR=18.5%] [Pre-proceedings – 1 review phase]
- [C28] SORICI, Alexandru, BOISSIER, Olivier, PICARD, Gauthier, and FLOREA, Adina (2015a). "Multi-Agent based Context Provisioning Deployment in Aml Applications". In: *13th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'15)*. Ed. by Yves DEMAZEAU and Keith DECKER. Vol. 9086. Lecture Notes in Artificial Intelligence (LNAI). Springer, 2015. doi: 10.1007/978-3-319-18944-4\_19. [AR=20.8%] [Core B – Pre-proceedings – 1 review phase]
- [C29] — (2015b). "Policy-based Adaptation of Context Provisioning in Aml". In: *Ambient Intelligence - Software and Applications - 6th International Symposium on Ambient Intelligence (ISAmI'15)*. Ed. by Amr MOHAMED, Paulo NOVAIS, António PEREIRA, Gabriel VILLARRUBIA GONZÁLEZ, and Antonio FERNÁNDEZ-CABALLERO. Vol. 376. Advances in Intelligent Systems and Computing. Springer International Publishing, 2015, pp. 33–43. doi: 10.1007/978-3-319-19695-4\_4.
- [C30] BELLONI, Aline, BERGER, Alain, BOISSIER, Olivier, BONNET, Grégory, BOURGNE, Gauvain, CHARDEL, P.A., COTTON, J.P., EVREUX, Nicolas, GANASCIA, Jean-Gabriel, JAILLON, Philippe, MERMET, Bruno, PICARD, Gauthier, REVER, Bernard, SIMON, Gaële, SWARTE, Thibault de, TESSIER, Catherine, VEXLER, François, VOYER, Robert, and ZIMMERMANN, Antoine (2014). "Towards A Framework To Deal With Ethical Conflicts In Autonomous Agents And Multi-Agent Systems". In: *12th International Conference on Computer Ethics and Philosophical Enquiry (CEPE'14)*. 2014, pp. 1–10.
- [C31] EVERAERE, Patricia, MORGE, Maxime, and PICARD, Gauthier (2013). "Minimal Concession Strategy for Reaching Fair, Optimal and Stable Marriages". In: *Proceedings of the 20th International Conference on Autonomous Agents and Multiagent Systems (AAMAS'13)*. Ed. by T. ITO, C. JONKER, M. GINI, and O. SHEHORY. International Foundation for Autonomous Agents and Multiagent Systems, 2013, pp. 1319–1320. URL: <http://dl.acm.org/citation.cfm?id=2484920.2485203>. [AR=44.28%] [Core A\* – Pre-proceedings – 1 review phase]
- [C32] VILLANUEVA, Diane, LE RICHE, Rodolphe, PICARD, Gauthier, and HAFTKA, Raphael T. (2013b). "Dynamic Design Space Partitioning for Optimization of an Integrated Thermal Protection System". In: *9th AIAA Multidisciplinary Design Optimization Specialist Conference co-located with the 54th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference (SDM'13)*. AIAA. 2013. doi: 10.2514/6.2013-1534. [Pre-proceedings – 1 review phase]
- [C33] PERSSON, Camille, PICARD, Gauthier, RAMPARANY, Fano, and BOISSIER, Olivier (2012a). "A JaCaMo-Based Governance of Machine-to-Machine Systems". In: *Advances on Practical Applications of Agents and Multiagent Systems, Proc. of the 10th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS 12)*. Ed. by Yves DEMAZEAU, Jörg P. MÜLLER, Juan M. Corchado RODRÍGUEZ, and Javier Bajo PÉREZ. Vol. 155. Advances in Soft Computing Series. Springer, 2012, pp. 161–168. doi: 10.1007/978-3-642-28786-2\_18. [AR=30.6%] [Core C – Pre-proceedings – 1 review phase]
- [C34] VILLANUEVA, Diane, LE RICHE, Rodolphe, PICARD, Gauthier, and HAFTKA, Raphael T. (2012a). "Dynamic Partitioning for Balancing Exploitation and Exploration in Constrained Optimization: A Multi-Agent Approach". In: *14th AIAA/ISSMO Multidisciplinary Analysis and Optimization Conference (MAO)*. AIAA. 2012. doi: 10.2514/6.2012-5440. [Pre-proceedings – 1 review phase]
- [C35] — (2012b). "Surrogate-Based Agents for Constrained Optimization". In: *14th AIAA Non-Deterministic Approaches Conference, Honolulu, HI*. AIAA, 2012. doi: 10.2514/6.2012-1935. [Pre-proceedings – 1 review phase]
- [C36] YAICH, Reda, BOISSIER, Olivier, JAILLON, Philippe, and PICARD, Gauthier (2012a). "An Adaptive and Socially-Compliant Trust Management System for Virtual Communities". In: *The 27th ACM Symposium On Applied Computing (SAC 2012)*. ACM Press, 2012, pp. 2022–2028. doi: 10.1145/2245276.2232112. [AR=26%] [CORE B – Pre-proceedings – 1 review phase]
- [C37] — (2012b). "An Agent Based Trust Management System for Multi-Agent Based Virtual Communities". In: *Advances on Practical Applications of Agents and Multiagent Systems, Proc. of the 10th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS 12)*. Ed. by Yves DEMAZEAU, Jörg P. MÜLLER, Juan M. Corchado RODRÍGUEZ, and Javier Bajo PÉREZ. Vol. 155. Advances in Soft Computing Series. Springer, 2012, pp. 217–223. doi: 10.1007/978-3-642-28786-2\_24. [AR=30.6%] [Core B – Pre-proceedings – 1 review phase]



- [C38] MORGE, Maxime and PICARD, Gauthier (2011). "Privacy-Preserving Strategy for Negotiating Stable, Equitable and Optimal Matchings". In: *Advances on Practical Applications of Agents and Multiagent Systems, Proc. of the 9th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS 11)*. Advances in Intelligent and Soft-Computing. Springer, 2011, pp. 97–102. DOI: 10.1007/978-3-642-19875-5. URL: <http://www.springerlink.com/content/978-3-642-19874-8#section=867062&page=1&locus=0>. [AR=48.1%] [Core C – Pre-proceedings – 1 review phase]
- [C39] PERSSON, Camille, PICARD, Gauthier, and RAMPARANY, Fano (2011a). "A Multi-Agent Organization for the Governance of Machine-To-Machine Systems". In: *IEEE/WIC/ACM International Conference on Intelligent Agent Technology (IAT'11)*. IEEE Computer Society, 2011, pp. 421–424. DOI: 10.1109/WI-IAT.2011.161. [AR=21%] [CORE B – Pre-proceedings – 1 review phase]
- [C40] VILLANUEVA, Diane, LE RICHE, Rodolphe, PICARD, Gauthier, HAFTKA, Raphael T., and SANKAR, Bhavani V. (2011b). "Decomposition of System Level Reliability-Based Design Optimization to Reduce the Number of Simulations". In: *ASME 2011 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, Washington, DC, USA*. ASME, 2011, pp. 117–126. DOI: 10.1115/DETC2011-47815. [Pre-proceedings – 1 review phase]
- [C41] KADDOUM, Elsy, GLEIZES, Marie-Pierre, GEORGÉ, Jean-Pierre, and PICARD, Gauthier (2009b). "Characterizing and Evaluating Problem Solving Self-\* Systems". In: *International Conference on Adaptive and Self-adaptive Systems and Applications (ADAPTIVE 2009), 2009 Computation World: Future Computing, Service Computation, Cognitive, Adaptive, Content, Patterns, Athens, Greece, November 15-November 20*. IEEE Computer Society, 2009, pp. 137–145. ISBN: 978-0-7695-3862-4. DOI: 10.1109/ComputationWorld.2009.100. [Pre-proceedings – 1 review phase]
- [C42] CLAIR, Gael, GLEIZES, Marie-Pierre, KADDOUM, Elsy, and PICARD, Gauthier (2008b). "Self-Regulation in Self-Organising Multi-Agent Systems for Adaptive and Intelligent Manufacturing Control". In: *Second IEEE International Conference on Self-Adaption and Self-Organization (SASO 2008), Venice, Italy, 20-24 October 2008*. IEEE Computer Society, 2008, pp. 107–116. DOI: 10.1109/SASO.2008.19. URL: [http://ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=4663415](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=4663415). [AR=27.1%] [Pre-proceedings – 1 review phase]
- [C43] PICARD, Gauthier, GLEIZES, Marie-Pierre, and GLIZE, Pierre (2007b). "Distributed Frequency Assignment Using Cooperative Self-Organization". In: *First IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'07), Boston, Mass., USA, July 9-11, 2007*. IEEE Computer Society, 2007, pp. 183–192. DOI: 10.1109/SASO.2007.18. URL: <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=4274902>. [AR=20.8%] [Pre-proceedings – 1 review phase]
- [C44] PICARD, Gauthier, BERNON, Carole, and GLEIZES, Marie-Pierre (2005a). "Emergent Timetabling Organization". In: *Multi-Agent Systems and Applications IV - 4th International Central and Eastern European Conference on Multi-Agent Systems (CEEMAS'05), 15-17 September 2005, Budapest, Hungary*. Vol. 3690. Lecture Notes in Artificial Intelligence (LNAI). Springer-Verlag, 2005, pp. 440–449. DOI: 10.1007/11559221\_44. URL: <http://www.springerlink.com/content/bcvm1jjad712erpv/>. [AR=40.7%] [Pre-proceedings – 1 evaluation round]
- [C45] PICARD, Gauthier and GLEIZES, Marie-Pierre (2005d). "Cooperative Self-Organization to Design Robust and Adaptive Collectives". In: *Second International Conference on Informatics in Control, Automation and Robotics (ICINCO'05), 14-17 September 2005, Barcelona, Spain, Volume I*. INSTICC Press, 2005, pp. 236–241. [AR=45.07%] [Core C – Pre-proceedings – 1 evaluation round]
- [C46] PICARD, Gauthier and GLIZE, Pierre (2005f). "Model and Experiments of Local Decision Based on Cooperative Self-Organization". In: *Second International Indian Conference on Artificial Intelligence (IICAI'05), 20-22 December 2005, Pune, India*. Ed. by PRASAD, B. 2005, 3009–3024. ISBN: 0-9727412-1-6. [AR=35%] [Pre-proceedings – 1 evaluation round]
- [C47] CAPERA, Davy, PICARD, Gauthier, GLEIZES, Marie-Pierre, and GLIZE, Pierre (2004). "Applying ADELFE Methodology to a Mechanism Design Problem". In: *Third Joint Conference on Multi-Agent System (AAMAS'04)*. New York, USA: IEEE Computer Society, 2004, pp. 1508–1509. ISBN: 1-58113-864-4. DOI: 10.1109/AAMAS.2004.66. URL: <http://portal.acm.org/citation.cfm?id=1019006>. [AR=49.7%] [CORE A\* – Pre-proceedings – 1 review phase]
- [C48] PICARD, Gauthier, BERNON, Carole, and GLEIZES, Marie-Pierre (2004a). "Cooperative Agent Model within ADELFE Framework: An Application to a Timetabling Problem". In: *Third Joint Conference on Multi-Agent System (AAMAS'04)*. New York, USA: IEEE Computer Society, 2004, pp. 1506–1507. ISBN: 1-58113-864-4. DOI: 10.1109/AAMAS.2004.93. URL: <http://portal.acm.org/citation.cfm?id=1019005>. [AR=49.7%] [CORE A\* – Pre-proceedings – 1 review phase]

- [C49] PICARD, Gauthier and GLEIZES, Marie-Pierre (2002). “An Agent Architecture to Design Self-Organizing Collectives: Principles and Application”. In: *AISB’02 Symposium on Adaptive Multi-Agent Systems (AAMASII)*. Ed. by D. KAZAKOV, D. KUDENKO, and E. ALONSO. Vol. 2636. Lecture Notes in Artificial Intelligence (LNAI). University of London, UK: Springer-Verlag, 2002, pp. 141–158. ISBN: 3-540-40068-0. DOI: 10.1007/3-540-44826-8\_9. URL: <http://www.springerlink.com/content/8gqx5072vmb132ta/>. [Post-proceedings – Selected and extended papers – 2 review phases]

#### International Workshops (peer-reviewed)

- [W1] BARRAULT, Romain, PRALET, Cédric, PICARD, Gauthier, SAWYER, Eric, and CHAN-HON-TONG, Adrien (2025c). “Learning the Feasibility of Sets of Acquisition Tasks for Earth Observation Satellites”. In: *International Workshop on Planning and Scheduling for Space (IWPSS-25)*. 2025. URL: <https://drive.google.com/file/d/1-TV6F1FhqNgXZMzsJV4jUxqcoMS1lhKA/view?usp=sharing>. [Pre-proceedings – 1 review phase]
- [W2] PRALET, Cédric, PICARD, Gauthier, DE LUSSY, Cyrille, and GUERRA, Jonathan (2025). “Mesh Dispatching for Area Coverage using Several Earth Observation Systems”. In: *International Workshop on Planning and Scheduling for Space (IWPSS-25)*. 2025. URL: [https://drive.google.com/file/d/1i7xA\\_bsB9gBkaCoi6uZ7LU1r36hUSU2K/view](https://drive.google.com/file/d/1i7xA_bsB9gBkaCoi6uZ7LU1r36hUSU2K/view). [Pre-proceedings – 1 review phase]
- [W3] ROUX, Thibault, STUDZINSKI PEROTTO, Filipo, and PICARD, Gauthier (2025a). “Towards Scalable Collision Avoidance in Dense Airspaces with Deep Multi-Agent Reinforcement Learning”. In: *Workshop on Adaptive and Learning Agents (ALA-25) at International Conference on Autonomous Agents and Multiagent Systems (AAMAS-25)*. 2025. URL: [https://ala-workshop.github.io/papers/ALA2025\\_paper\\_12.pdf](https://ala-workshop.github.io/papers/ALA2025_paper_12.pdf). [Pre-proceedings – 1 review phase]
- [W4] WILLOT, Hénôïk, FARGES, Jean-Loup, PICARD, Gauthier, and PAVERO, Philippe (2025a). “Deterministic and Probabilistic Decision Models for GSaaS-based Satellite Communication Resource Management”. In: *International Workshop on Planning and Scheduling for Space (IWPSS-25)*. 2025. URL: <https://drive.google.com/file/d/18-NppnOCAXyehIrKMbFfTMQy4v0A-1IC/view?usp=sharing>. [Pre-proceedings – 1 review phase]
- [W5] GUILLET, Victor, GRAND, Christophe, LESIRE, Charles, and PICARD, Gauthier (2024a). “Bid Intercession to Unlock Human Control in Decentralized Consensus-based Multi-Robot Task Allocation Algorithms”. In: *4th Workshop on Agents and Robots for reliable Engineered Autonomy (AREA-24)*. Ed. by Angelo FERRANDO and Rafael C. CARDOSO. Vol. 2230. Springer, 2024, pp. 99–114. DOI: 10.1007/978-3-031-73180-8\_7. URL: <https://link.springer.com/content/pdf/10.1007/978-3-031-73180-8.pdf>. [Pre-proceedings – 1 review phase – Workshop best paper award]
- [W6] POURÉ, Thomas, VAREILLES, Elise, ROUSSEL, Stéphanie, and PICARD, Gauthier (2024). “Configuration of Heterogeneous Agent Fleet: a Preliminary Generic Model”. In: *ConfWS’24: 26th International Workshop on Configuration*. CEUR Workshop Proceedings, 2024.
- [W7] VAREILLES, Elise, ROUSSEL, Stéphanie, and PICARD, Gauthier (2023). “PERFECT: PERformant and Robust read-to-fly FLEet ConfiguraTion: from Robot to Mission Plan”. In: *ConfWS’23: 25th International Workshop on Configuration, Sep 6–7, 2023, Málaga, Spain*. Vol. 3509. CEUR Workshop Proceedings, 2023, pp. 104–107. URL: <https://ceur-ws.org/Vol-3509/paper14.pdf>.
- [W8] BIMONTE, Sandro, BELHASSENA, Amina, CARIOU, Christophe, LANERUTI, Jean, MOUSSA, Rim, CHALHOUB, Gérard, WREMBEL, Robert, PICARD, Gauthier, BELLATRECHE, Ladjel, JOURNAUX, Alexandre, HEIRMAN, Thierry, HASSAN, Ali, RIZZI, Stefano, and GEORGÉ, Jean-Pierre (2021). “On Designing and Implementing Agro-ecology IoT Applications: Issues from Applied Research Projects”. In: *First International Workshop on Latest Advances in Enterprise Architectures in the IoT Era (EAIoT’2021)*. 2021.
- [W9] DAOUD, Alaa, ALQASIR, Hiba, MUALLA, Yazan, NAJJAR, Amro, PICARD, Gauthier, and BALBO, Flavien (2021a). “Towards Explainable Recommendations of Resource Allocation Mechanisms in On-Demand Transport Fleets”. In: *Explainable and Transparent AI and Multi-Agent Systems, Third International Workshop (EXTRAAMAS 2021)*. Vol. 12688. Lecture Notes on Artificial Intelligence (LNAI). Springer International Publishing, 2021, pp. 95–117. DOI: 10.1007/978-3-030-82017-6\_7.
- [W10] DAOUD, Alaa, BALBO, Flavien, GIANESSI, Paolo, and PICARD, Gauthier (2021b). “A Generic Agent Model Towards Comparing Resource Allocation Approaches to On-demand Transport with Autonomous Vehicles”. In: *The 12th Workshop on Optimization and Learning in Multiagent Systems (OptLearnMAS-21)*. at AAMAS 2021 (virtual) London, United Kingdom, 2021. URL: <https://hal.archives-ouvertes.fr/hal-03201325>.
- [W11] PICARD, Gauthier (2021a). “Auction-based and Distributed Optimization Approaches for Scheduling Observations in Satellite Constellations with Exclusive Orbit Portions”. In: *International Workshop on Planning and Scheduling for Space (IWPSS’21)*. 2021. arXiv: 2106.03548. URL: <https://arxiv.org/abs/2106.03548>.

- [W12] DAOUD, Alaa, BALBO, Flavien, GIANESSI, Paolo, and PICARD, Gauthier (2020b). “Decentralized Insertion Heuristic with Runtime Optimization for On-demand Transport Scheduling”. In: *ATT2020 (11th International Workshop on Agents in Traffic and Transportation)*. Ed. by Ivana DUSPARIC, Marin LUJAK, Franziska KLÜGL, and Giuseppe VIZZARI. CEUR Workshop Proceedings, 2020, pp. 9–15. URL: <https://sites.google.com/unimib.it/att2020/>.
- [W13] PICARD, Gauthier and RUST, Pierre (2020b). “Assessing Performances of Incomplete DCOP Solvers on HetNet User Association Problems”. In: *Declarative Problem Solving Workshop (DPSW@ECAI’20)*. 2020.
- [W14] RUST, Pierre, PICARD, Gauthier, and RAMPARANY, Fano (2019b). “pyDCOP, a DCOP library for IoT and dynamic systems”. In: *International Workshop on Optimisation in Multi-Agent Systems (OptMAS@AAMAS 2019)*. 2019.
- [W15] CERQUIDES, Jesús, EMONET, Rémi, PICARD, Gauthier, and RODRÍGUEZ-AGUILAR, Juan Antonio (2018c). “Improving Max-Sum through Decimation to Solve Loopy Distributed Constraint Optimization Problems”. In: *International Workshop on Optimisation in Multi-Agent Systems (OptMAS@AAMAS 2018)*. 2018. URL: [http://www-personal.umich.edu/~fioretto/cfp/OPTMAS18/papers/paper\\_1.pdf](http://www-personal.umich.edu/~fioretto/cfp/OPTMAS18/papers/paper_1.pdf).
- [W16] NAJJAR, Amro, MUALLA, Yazan, SINGH, Kamal, and PICARD, Gauthier (2018b). “One-to-Many Multi-agent Negotiation and Coordination Mechanisms to Manage User Satisfaction”. In: *International Workshop on Agent-based Complex Automated Negotiations (ACAN2018)*. 2018.
- [W17] RUST, Pierre, PICARD, Gauthier, and RAMPARANY, Fano (2018c). “Self-Organized and Resilient Distribution of Decisions over Dynamic Multi-Agent Systems”. In: *International Workshop on Optimisation in Multi-Agent Systems (OptMAS@AAMAS 2018)*. 2018. URL: [http://www-personal.umich.edu/~fioretto/cfp/OPTMAS18/papers/paper\\_13.pdf](http://www-personal.umich.edu/~fioretto/cfp/OPTMAS18/papers/paper_13.pdf).
- [W18] NAJJAR, Amro, BOISSIER, Olivier, and PICARD, Gauthier (2017a). “An Adaptive One-to-many Negotiation to Improve The Service Acceptability of an Open SaaS Provider”. In: *International Workshop on Agent-based Complex Automated Negotiations (ACAN2017)*. 2017. URL: <http://www.itolab.nitech.ac.jp/ACAN2017/>.
- [W19] — (2017c). “Elastic and Load-Spike Proof One-to-Many Negotiation to Improve the Service Acceptability of an Open SaaS Provider”. In: *Autonomous Agents and Multiagent Systems – AAMAS 2017 Workshops, Best Papers, Sao Paulo, Brazil, May 8-12, 2017, Revised Selected Papers*. Ed. by G. SUKTHANKAR and J.A. RODRIGUEZ-AGUILAR. Vol. 10642. LNAI. Extended Version. Springer, 2017, pp. 1–20. DOI: 10.1007/978-3-319-71682-4\_1. [Post-proceedings – 2 review phases on extended version – Best Paper Award]
- [W20] RUST, Pierre, PICARD, Gauthier, and RAMPARANY, Fano (2017d). “On the Deployment of Factor Graph Elements to Operate Max-Sum in Dynamic Ambient Environments”. In: *8th International Workshop on Optimisation in Multi-Agent Systems (OPTMAS 2017, in conjunction with AAMAS 2017)*. 2017. URL: <https://www.cs.nmsu.edu/~weeh/OPTMAS2017/>. [No proceedings – 1 review phase – Best Paper Award]
- [W21] — (2017c). “On the Deployment of Factor Graph Elements to Operate Max-Sum in Dynamic Ambient Environments”. In: *Autonomous Agents and Multiagent Systems – AAMAS 2017 Workshops, Best Papers, Sao Paulo, Brazil, May 8-12, 2017, Revised Selected Papers*. Ed. by G. SUKTHANKAR and J.A. RODRIGUEZ-AGUILAR. Vol. 10642. Lecture Notes in Artificial Intelligence (LNAI). Extended Version. Springer, 2017, pp. 116–137. DOI: 10.1007/978-3-319-71682-4\_8. [Post-proceedings – 2 review phases on extended version – Best Paper Award]
- [W22] GILLANI, Syed, PICARD, Gauthier, and LAFOREST, Frédérique (2016b). “DIONYSUS: Towards Query-aware Distributed Processing of RDF Graph Streams”. In: *Fifth International Workshop on Querying Graph Structured Data (GraphQ’16) at EDBT/ICDT 2016 Joint Conference*. 2016. URL: <http://ceur-ws.org/Vol-1558/paper22.pdf>. [Pre-proceedings – 1 review phase]
- [W23] BELLONI, Aline, BERGER, Alain, BOISSIER, Olivier, BONNET, Grégory, BOURGNE, Gauvain, CHARDEL, P.A., COTTON, J.P., EVREUX, Nicolas, GANASCIA, Jean-Gabriel, JAILLON, Philippe, MERMET, Bruno, PICARD, Gauthier, REVER, Bernard, SIMON, Gaële, SWARTE, Thibault de, TESSIER, Catherine, VEXLER, François, VOYER, Robert, and ZIMMERMANN, Antoine (2015). “Dealing With Ethical Conflicts In Autonomous Agents And Multi-Agent Systems”. In: *Workshop on AI and Ethics at The Twenty-Ninth AAAI Conference on Artificial Intelligence (AAAI’15)*. 2015. [AR=40%]
- [W24] CERQUIDES, Jesús, PICARD, Gauthier, and RODRÍGUEZ-AGUILAR, Juan Antonio (2015b). “Defining a Continuous Marketplace for the Trading and Distribution of Energy in the Smart Grid”. In: *Second Workshop on Interfaces between Multiagent Systems, Machine Learning and Complex Systems*. 2015, pp. 37–48. [No proceedings – 1 review phase]
- [W25] SORICI, Alexandru, PICARD, Gauthier, and FLOREA, Adina (2015e). “Multi-Agent Based Context Management in AmI Applications”. In: *International Workshop on Agent Technology for Ambient Intelligence at the the 20th International Conference on Control Systems and Computer Science (CSCS)*. IEEE CPS, 2015, pp. 727–734. DOI: 10.1109/CSCS.2015.65. URL: <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7168506>. [AR=50%]

- [W26] GILLANI, Syed, LAFOREST, Frédérique, and PICARD, Gauthier (2014a). “A Generic Ontology for Prosumer-Oriented Smart Grid”. In: *3rd Workshop on Energy Data Management at 17th International Conference on Extending Database Technology*. CEUR Workshop Proceedings, 2014, pp. 134–139. URL: <http://ceur-ws.org/Vol-1133/#paper-21>.
- [W27] GILLANI, Syed, PICARD, Gauthier, and LAFOREST, Frédérique (2014b). “IntelSCEP: Towards an Intelligent Semantic Complex Event Processing Framework for Prosumer-Oriented SmartGrid”. In: *International Workshop on Web Intelligence and Smart Sensing (IWWISS’14)*. Ed. by Pierre MARET and Satoshi HONDA. ACM Digital Library, 2014. DOI: 10.1145/2637064.2637110. URL: <http://dl.acm.org/citation.cfm?id=2637110&CFID=422236107&CFTOKEN=63603169>. [Poster]
- [W28] — (2014c). “Towards a Distributed Semantically Enriched Complex Event Processing and Pattern Matching”. In: *3rd International Workshop on Ordering and Reasoning (OrdRing’14)*. CEUR Workshop Proceedings, 2014. URL: <http://www.streamreasoning.org/events/ordring2014>. [Pre-proceedings – 1 review phase]
- [W29] PERSSON, Camille, PICARD, Gauthier, RAMPARANY, Fano, and BOISSIER, Olivier (2014). “A Multi-Agent based Governance of Machine-to-Machine Systems”. In: *International Workshop on Web Intelligence and Smart Sensing (IWWISS’14)*. Ed. by Pierre MARET and Satoshi HONDA. ACM Digital Library, 2014, pp. 1–2. DOI: 10.1145/2637064.2637112. URL: <http://dl.acm.org/citation.cfm?id=2637112&CFID=422236107&CFTOKEN=63603169>. [Poster]
- [W30] SORICI, Alexandru, PICARD, Gauthier, and BOISSIER, Olivier (2014). “Towards an Agent enabled Context Management Middleware”. In: *International Workshop on Web Intelligence and Smart Sensing (IWWISS’14)*. Ed. by Pierre MARET and Satoshi HONDA. ACM Digital Library, 2014. DOI: 10.1145/2637064.2637111. URL: <http://dl.acm.org/citation.cfm?id=2637111&CFID=422236107&CFTOKEN=63603169>. [Poster]
- [W31] RIVIÈRE, Jérémy, LE RICHE, Rodolphe, and PICARD, Gauthier (2013). “LOOM, an algorithm for finding local optima of expensive functions”. In: *International France-China Workshop, NICST’2013 (New and smart Information Communication Science and Technology to support Sustainable Development), 18-20 September 2013, Clermont Ferrand, France*. LIMOS/UPB, 2013. ISBN: 978-2-9544948-0-7. [Pre-proceedings – 1 review phase]
- [W32] SORICI, Alexandru, BOISSIER, Olivier, PICARD, Gauthier, and ZIMMERMANN, Antoine (2013). “Applying Semantic Web Technologies to Context Modeling in Ambient Intelligence”. In: *Evolving Ambient Intelligence: AMI 2013 Workshops, Dublin, Ireland, December 3-5, 2013. Revised Selected Papers*. Ed. by M. O’GRADY, H. VAHDAT-NEJAD, K.H. WOLF, M. DRAGONE, J. YE, C. RÖCKER, and G. O’HARE. Communications in Computer and Information Science 413. Springer, 2013, pp. 217–229. DOI: 10.1007/978-3-319-04406-4\_22. URL: <http://www.percam.org>. [CORE C – Pre-proceedings – 1 review phase]
- [W33] VILLANUEVA, Diane, LE RICHE, Rodolphe, PICARD, Gauthier, and HAFTKA, Raphael T. (2013c). “Self-organized Space Partitioning for Multi-Agent Optimization”. In: *6th International Workshop on Optimisation in Multi-Agent Systems (OPTMAS 2013, in conjunction with AAMAS 2013 6th-7th May 2013)*. 2013. [Pre-proceedings – 1 review phase]
- [W34] BILAL, Mustapha, PERSSON, Camille, RAMPARANY, Fano, PICARD, Gauthier, and BOISSIER, Olivier (2012). “Multi-Agent based governance model for Machine-to-Machine networks in a smart parking management system”. In: *Proceedings of IEEE International Conference on Communications, ICC 2012, Ottawa, ON, Canada, June 10-15, 2012, 3rd IEEE International Workshop on SmARt Communications in Network Technologies (‘ICC’12 WS - SaCoNet-III’)*. IEEE Computer Society, 2012, pp. 6468–6472. DOI: 10.1109/ICC.2012.6364789. [EIC 160/788 in Communications – Pre-proceedings – 1 review phase]
- [W35] PERSSON, Camille, PICARD, Gauthier, RAMPARANY, Fano, and BOISSIER, Olivier (2012b). “Multi-Agent Based Governance of Machine-to-Machine Systems”. In: *9th European Workshop (EUMAS 2011), Revised Selected Papers*. Ed. by M. COSSENTINO, M. KAISERS, K. TUYLS, and G. WEISS. Vol. 7541. Lecture Notes in Computer Science (LNCS). Springer, 2012, pp. 205–220. DOI: 10.1007/978-3-642-34799-3\_14. URL: <http://www.springer.com/computer/ai/book/978-3-642-34798-6>. [AR=26%] [Post-proceedings – Selected and extended papers – 2 review phases]
- [W36] SORICI, Alexandru, PICARD, Gauthier, BOISSIER, Olivier, SANTI, Andrea, and HÜBNER, Jomi F. (2012). “Multi-Agent Oriented Reorganisation within the JaCaMo infrastructure”. In: *The 3rd International Workshop on Infrastructures and Tools for Multiagent Systems (ITMAS 2012)*. 2012. [No proceedings – 1 review phase]
- [W37] PERSSON, Camille, PICARD, Gauthier, RAMPARANY, Fano, and BOISSIER, Olivier (2011b). “A Multi-Agent Organization for the Governance of Machine-to-Machine Systems”. In: *European Workshop on Multi-agent Systems (EUMAS’11)*. 2011. [CORE C – Pre-proceedings – 1 review phase]

- [W38] SORICI, Alexandru, BOISSIER, Olivier, PICARD, Gauthier, and SANTI, Andrea (2011). "Exploiting the JaCaMo Framework for Realising an Adaptive Room Management Application". In: *AGERE! (Actors and aGENTS REloaded) Programming Systems, Languages, and Applications based on Actors, Agents, and Decentralized Control workshop at ACM SPLASH 2011*. ACM Press, 2011, pp. 239–242. DOI: 10.1145/2095050.2095088. [Pre-proceedings – 1 review phase]
- [W39] YAICH, Reda, BOISSIER, Olivier, JAILLON, Philippe, and PICARD, Gauthier (2011a). "Social-Compliance in Trust Management within Virtual Communities". In: *3rd International Workshop on Web Intelligence and Communities (WI&C'11) at the International Conferences on Web Intelligence and Intelligent Agent Technology (WI-IAT 2011)*. IEEE Computer Society, 2011, pp. 322–325. DOI: 10.1109/WI-IAT.2011.212. [CORE B – Pre-proceedings – 1 review phase]
- [W40] YAICH, Reda, BOISSIER, Olivier, PICARD, Gauthier, and JAILLON, Philippe (2011b). "Social-Compliance in Trust Management within Virtual Communities". In: *European Workshop on Multi-agent Systems (EUMAS'11)*. 2011. [CORE C – Pre-proceedings – 1 review phase]
- [W41] GEORGÉ, J.-P., GLEIZES, Marie-Pierre, KADDOUM, Elsy, MASCIARDI, Laura, PICARD, Gauthier, and RAIBULET, Claudia (2010). "Criteria for Self-\* Systems Evaluation: a Unified Proposal". In: *ICSE 2010 Workshop on Software Engineering for Adaptive and Self-managing Systems (SEAMS), Cape Town, South Africa*. ACM/IEEE, 2010, pp. 29–38. DOI: 10.1145/1808984.1808988. [Pre-proceedings – 1 review phase]
- [W42] PICARD, Gauthier, HÜBNER, Jomi F., BOISSIER, Olivier, and GLEIZES, Marie-Pierre (2009a). "Reorganisation and Self-organisation in Multi-Agent Systems". In: *International Workshop on Organizational Modeling (OrgMod'09)*. 2009, pp. 66–80. [AR=57.3%] [Pre-proceedings – 1 review phase]
- [W43] GARCIA RUIZ, José Esteban, GEORGÉ, Jean-Pierre, and PICARD, Gauthier (2008). "The AmICriM Project: A Truly Body Area Network Application". In: *First International Workshop on Sensor Networks (SN 2008), in conjunction with ICCCN 2008, August 4-7, Virgin Islands, USA*. 2008. [No proceedings – 1 review phase]
- [W44] HÜBNER, Jomi F., BORDINI, Rafael H., and PICARD, Gauthier (2008a). "Jason and MOISE+: Organisational programming in the Agent Contest 2008". In: *Dagstuhl Seminar on Programming Multi-Agent Systems*. Ed. by R. BORDINI, M. DASTANI, J. DIX, and A. EL FALLAH-SEGHRUCHNI. Vol. 08361. 2008.
- [W45] — (2008b). "Using jason and MOISE+ to develop a team of cowboys". In: *Proceedings of the Seventh international Workshop on Programming Multi-Agent Systems (ProMAS 08), Agent Contest, held with The Seventh International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS 2008)*. Ed. by K. HINDRIKS, A. POKAHR, and S. SARDINA. 2008, pp. 238–242. DOI: 10.1007/978-3-642-03278-3. URL: <http://www.springerlink.com/content/t402t436636r/#section=185314&page=1&locus=0>. [CORE B – Post-proceedings – Demo Contest selected paper – 1 review phase, 1 demonstration]
- [W46] BERNON, Carole, GLEIZES, Marie-Pierre, and PICARD, Gauthier (2006). "Enhancing Self-Organising Emergent Systems Design with Simulation". In: *Seventh International Workshop on Engineering Societies in the Agents World (ESAW'06), Dublin, Ireland from the 6th - 8th September, 2006*. Lecture Notes in Computer Science (LNCS) 4457. Springer-Verlag, 2006, pp. 284–299. DOI: 10.1007/978-3-540-75524-1. URL: <http://www.springerlink.com/content/978-3-540-75522-7/#section=347810&page=1&locus=0>. [AR=58%] [MRS 79/361 – Post-proceedings – Selected and extended papers – 2 review phases]
- [W47] CAPERA, Davy, PICARD, Gauthier, GLEIZES, Marie-Pierre, and GLIZE, Pierre (2005). "A Sample Application of ADELFE Focusing on Analysis and Design : The Mechanism Design Problem". In: *Fifth International Workshop on Engineering Societies in the Agents World (ESAW'04), 20-22 October 2004, Toulouse, France*. Ed. by M.-P. GLEIZES, A. OMICINI, and F. ZAMBONELLI. Vol. 3451. Lecture Notes in Artificial Intelligence (LNAI). Springer-Verlag, 2005, pp. 231–244. DOI: 10.1007/11423355\_17. URL: <http://www.springerlink.com/content/3kc056tmv1bf78bn/>. [AR=51.1%] [MRS 79/361 – Post-proceedings – Selected and extended papers – 2 review phases]
- [W48] PICARD, Gauthier (2005a). "Cooperative Agent Model Instantiation to Collective Robotics in ADELFE". In: *Fifth International Workshop on Engineering Societies in the Agents World (ESAW'04), 20-22 October 2004, Toulouse, France*. Ed. by M.-P. GLEIZES, A. OMICINI, and F. ZAMBONELLI. Vol. 3451. Lecture Notes in Artificial Intelligence (LNAI). Springer-Verlag, 2005, pp. 209–221. DOI: 10.1007/11423355\_15. URL: <http://www.springerlink.com/content/5ek2vg08a3qcyxuw/>. [AR=51.1%] [MRS 79/361 – Post-proceedings – Selected and extended papers – 2 review phases]
- [W49] PICARD, Gauthier, BERNON, Carole, and GLEIZES, Marie-Pierre (2005b). "ETTO: Emergent Timetabling by Cooperative Self-Organization". In: *Engineering Self-Organizing Applications – Third International Workshop (ESOA) at the Fourth International Joint Conference on Autonomous Agents and Multi-Agents Systems (AAMAS'05), July 2005, Utrecht, Netherlands*. Vol. 3910. Lecture Notes in Artificial Intelligence (LNAI). Springer-Verlag, 2005, pp. 31–45. DOI: 10.1007/11734697\_3. URL: <http://www.springerlink.com/content/v5q7611867rq3011/>. [AR=47%] [Post-proceedings – Selected and extended papers – 2 review phases]



- [W50] PICARD, Gauthier and GLEIZES, Marie-Pierre (2005c). “Cooperative Self-Organization: Designing Robust and Adaptive Robotic Collectives”. In: *3rd European Workshop on Multi-Agent Systems (EUMAS’05)*, 7-8 December, Brussels, Belgium. Koninklijke Vlaamse Academie van Belie voor Wetenschappen en Kunsten, 2005, pp. 495–496. [CORE C – Pre-proceedings – 1 review phase]
- [W51] PICARD, Gauthier and GLIZE, Pierre (2005e). “Cooperative Self-Organization: Modeling and Experiments of Local Decision to Solve Distributed Problems”. In: *3rd European Workshop on Multi-Agent Systems (EUMAS’05)*, 7-8 December, Brussels, Belgium. Koninklijke Vlaamse Academie van Belie voor Wetenschappen en Kunsten, 2005, pp. 497–498. [CORE C – Pre-proceedings – 1 review phase]
- [W52] PICARD, Gauthier, MELLOULI, Sehl, and GLEIZES, Marie-Pierre (2005h). “Techniques for Multi-Agent System Reorganization”. In: *Sixth International Workshop on Engineering Societies in the Agents World (ESAW’05)*, 26-28 October 2005, Kuşadası, Aydın, Turkey. Ed. by O. DIKENELLI, M.-P. GLEIZES, and A. RICCI. Vol. 3963. Lecture Notes in Artificial Intelligence (LNAI). Springer-Verlag, 2005, pp. 142–152. DOI: 10.1007/11759683\_9. URL: <http://www.springerlink.com/content/u5t7k34040506374/>. [AR=44%] [MRS 79/361 – Post-proceedings – Selected and extended papers – 2 review phases]
- [W53] BERNON, Carole, CAMPS, Valérie, GLEIZES, Marie-Pierre, and PICARD, Gauthier (2003a). “Designing Agents’ Behaviours within the Framework of ADELFE Methodology”. In: *Fourth International Workshop on Engineering Societies in the Agents World (ESAW’03)*. Ed. by A. OMICINI, P. PETTA, and J. PITT. Vol. 3071. Lecture Notes in Artificial Intelligence (LNAI). Imperial College London, UK: Springer-Verlag, 2003, pp. 311–327. DOI: 10.1007/978-3-540-25946-6\_20. URL: <http://www.springerlink.com/content/m4ya2cvcjx1grhcm/>. [AR=32.2%] [MRS 79/361 – Post-proceedings – Selected and extended papers – 2 review phases]
- [W54] — (2003b). “Tools for Self-Organizing Applications Engineering”. In: *Engineering Self-Organizing Applications – First International Workshop (ESOA) at the Second International Joint Conference on Autonomous Agents and Multi-Agents Systems (AAMAS’03)*. Ed. by G. DI MARZO SERUGENDO, A. KARAGEORGOS, O. F. RANA, and F. ZAMBONELLI. Vol. 2977. Lecture Notes in Artificial Intelligence (LNAI). Melbourne, Australia: Springer-Verlag, 2003, pp. 283–298. ISBN: 3-540-21201-9. DOI: 10.1007/978-3-540-24701-2\_19. URL: <http://springerlink.metapress.com/content/0muewchfkxx1nym0/>. [Post-proceedings – Extended papers – 2 review phases]
- [W55] GEORGÉ, Jean-Pierre, PICARD, Gauthier, GLEIZES, Marie-Pierre, and GLIZE, Pierre (2003). “Living Design for Open Computational Systems”. In: *International Workshop on Theory And Practice of Open Computational Systems (TAPOCS) at 12th IEEE International Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE’03)*. Ed. by M. FREDRIKSSON, A. RICCI, R. GUSTAVSSON, and A. OMICINI. Linz, Austria: IEEE Computer Society, 2003, pp. 389–394. ISBN: 0-7695-1963-6. DOI: 10.1109/ENABL.2003.1231442. URL: <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=1231442>. [AR=76.7%] [CORE B – Pre-proceedings – 1 review phase – Workshop best paper]
- [W56] PICARD, Gauthier (2003b). “UML Stereotypes Definition and AUML Notations for ADELFE Methodology with OpenTool”. In: *The First European Workshop on Multi-Agent Systems (EUMAS’03)*, St Catherine College, Oxford, 18th and 19th December 2003. 2003. [CORE C – 1 review phase]
- [W57] BERNON, Carole, GLEIZES, Marie-Pierre, PEYRUQUEOU, Sylvain, and PICARD, Gauthier (2002a). “ADELFE: a Methodology for Adaptive Multi-Agent Systems Engineering”. In: *Third International Workshop on Engineering Societies in the Agents World (ESAW’02)*. Ed. by P. PETTA, R. TOLKSDORF, and F. ZAMBONELLI. Vol. 2577. Lecture Notes in Computer Science (LNCS). Madrid, Spain: Springer-Verlag, 2002, pp. 156–169. ISBN: 3-540-14009-3. DOI: 10.1007/3-540-39173-8\_12. URL: <http://www.springerlink.com/content/rheud1raydumk5g1/>. [AR=57.1%] [MRS 79/361 – Post-proceedings – Selected and extended papers – 2 review phases]
- [W58] BERNON, Carole, GLEIZES, Marie-Pierre, PICARD, Gauthier, and GLIZE, Pierre (2002b). “The ADELFE Methodology For an Intranet System Design”. In: *Fourth International Bi-Conference Workshop on Agent-Oriented Information Systems (AOIS-2002)*. Ed. by P. GIORGINI, Y. LESPÉRANCE, G. WAGNER, and E. YU. Vol. 57. CAiSE’02. Toronto, Canada: CEUR Workshop Proceedings, 2002. URL: <http://sunsite.informatik.rwth-aachen.de/Publications/CEUR-WS/Vol-57/>. [CORE B – Online pre-proceedings – 1 review phase]

#### National Conferences (peer-reviewed)

- [N1] GUILLET, Victor, LESIRE, Charles, PICARD, Gauthier, and GRAND, Christophe (2025b). “Extension de CBBA par intercession d’offre pour favoriser l’initiative mixte”. In: *Journées Francophones sur les Systèmes Multi-Agents (JFSMA-25)*. Cépaduès, 2025. [Post-proceedings – 1 review phase]
- [N2] LIGNY, Lucas, PICARD, Gauthier, ROUSSEL, Stéphanie, and VAREILLES, Elise (2025a). “Configuration de flottes de robots hétérogènes pour la planification de mission: une approche basée programmation par contraintes”. In: *Journées Francophones de Programmation par Contraintes (JFPC-25)*. 2025. [Pre-proceedings – 1 review phase]

- [N3] ROUX, Thibault, STUDZINSKI PEROTTO, Filippo, and PICARD, Gauthier (2025b). “Évitement de collision dans des espaces aériens denses: des défis pour l’apprentissage par renforcement multi-agent”. In: *Journées Francophones sur les Systèmes Multi-Agents (JFSMA-25)*. 2025. [Post-proceedings – 1 review phase]
- [N4] FARGES, Jean-Loup, PEROTTO, Filippo, PICARD, Gauthier, PRALET, Cédric, LUSSY, Cyrille de, GUERRA, Jonathan, PAVERO, Philippe, and PLANCHOU, Fabrice (2024b). “Dépasser l’observation mono-mission de la Terre : utiliser le paradigme multi-agents pour fédérer de multiples missions”. In: *Conférence Nationale sur les Applications Pratiques de l’Intelligence Artificielle (APIA’24)*. 2024. [Post-proceedings – 1 review phase]
- [N5] GUILLET, Victor, GRAND, Christophe, LESIRE, Charles, and PICARD, Gauthier (2024b). “Intercession d’enchères pour plus d’initiative mixte dans les algorithmes décentralisés d’allocation de tâches multi-robots basés sur le consensus”. In: *Journées Francophones sur les Systèmes Multi-Agents*. Ed. by Sébastien PICAULT. Cépaduès, 2024. [Post-proceedings – 1 review phase]
- [N6] HAMADI, Youssef and PICARD, Gauthier (2024a). “Résolution multicritère socialement acceptable du problème de réparation des contrats 4D dans le cadre de la gestion du trafic aérien sans pilote”. In: *Conférence Nationale sur les Applications Pratiques de l’Intelligence Artificielle (APIA’24)*. 2024. [Post-proceedings – 1 review phase]
- [N7] PICARD, Gauthier (2023a). “Allocation décentralisée de lots par consensus pour des tâches composites multi-modes”. In: *Journées Francophones sur les Systèmes Multi-Agents*. Cépaduès, 2023, pp. 11–20. [Post-proceedings – 1 review phase]
- [N8] MAQROT, Sara, PICARD, Gauthier, PRALET, Cédric, and ROUSSEL, Stéphanie (2022b). “Techniques d’allocation de lots avec des préférences conflictuelles représentées par des graphes acycliques dirigés pondérés”. In: *Conférence Nationale en Intelligence Artificielle (CNIA 2022)*. 2022.
- [N9] PICARD, Gauthier (2022b). “Coordination de trajectoires 4D par optimisation distribuée dans la gestion du trafic aérien sans pilote”. In: *Journées Francophones sur les Systèmes Multi-Agents*. Cépaduès, 2022.
- [N10] DAOUD, Alaa, BALBO, Flavien, GIANESSI, Paolo, and PICARD, Gauthier (2021e). “Un modèle agent générique pour la comparaison d’approches d’allocation de ressources dans le domaine du transport à la demande”. In: *Journées Francophones sur les Systèmes Multi-Agents*. Cépaduès, 2021, pp. 127–136. [AR=31%] [Post-proceedings – 1 review phase]
- [N11] PICARD, Gauthier (2021b). “Planification multi-utilisateurs et multi-satellites de tâches d’observation dans des constellations avec portions d’orbites exclusives”. In: *Journées Francophones sur les Systèmes Multi-Agents*. Cépaduès, 2021, pp. 117–126. [AR=31%] [Post-proceedings – 1 review phase]
- [N12] PICARD, Gauthier, CARON, Clément, FARGES, Jean-Loup, GUERRA, Jonathan, PRALET, Cédric, and ROUSSEL, Stéphanie (2021b). “Défis ouverts aux systèmes multi-agents dans le cadre des constellations de satellites d’observation de la Terre”. In: *Conférence Nationale sur les Applications Pratiques de l’Intelligence Artificielle (APIA 2021)*. 2021, pp. 25–33.
- [N13] DAOUD, Alaa, BALBO, Flavien, GIANESSI, Paolo, and PICARD, Gauthier (2020a). “Approche décentralisée d’insertion avec amélioration continue de la qualité de la solution pour un système TAD”. In: *Conférence Nationale d’Intelligence Artificielle et Rencontres des Jeunes Chercheurs en Intelligence Artificielle (RJCIA)*. Association Française pour l’Intelligence Artificielle (AFIA), 2020, pp. 99–106. URL: <http://pfia2020.fr/rjcia-2020/>.
- [N14] PICARD, Gauthier and RUST, Pierre (2020a). “Analyse des performances d’algorithmes DCOP pour l’association d’utilisateurs de réseaux HetNets”. In: *Journées Francophones sur les Systèmes Multi-Agents*. Cépaduès, 2020. [AR=37.5%] [Post-proceedings – 1 review phase]
- [N15] RUST, Pierre, PICARD, Gauthier, and RAMPARANY, Fano (2019c). “Résilience et auto-réparation de processus de décisions multi-agents”. In: *Journées Francophones sur les Systèmes Multi-Agents*. Cépaduès, 2019. URL: <https://www.cephadues.com/livres/JFSMA-2019.-Systèmes-distribués,-embarqués-et-diffus-9782364937192.html>. [AR=40%] [Post-proceedings – 1 review phase]
- [N16] CERQUIDES, Jesús, EMONET, Rémi, PICARD, Gauthier, and RODRÍGUEZ-AGUILAR, Juan Antonio (2018a). “Deci-MaxSum : Décimer pour résoudre des DCOP cycliques plus efficacement”. In: *Journées Francophones sur les Systèmes Multi-Agents*. Cépaduès, 2018, pp. 63–72. URL: <https://www.cephadues.com/livres/jfsma-2018-distribution-decentralisation-9782364936751.html>. [AR=21.15%] [Post-proceedings – 1 review phase]
- [N17] NAJJAR, Amro, MUALLA, Yazan, PICARD, Gauthier, and SINGH, Kamal (2018a). “Négociation multi-agent « un-à-plusieurs » et mécanismes de coordination pour la gestion de la satisfaction des utilisateurs d’un service”. In: *Journées Francophones sur les Systèmes Multi-Agents*. Cépaduès, 2018, pp. 95–104. URL: <https://www.cephadues.com/livres/jfsma-2018-distribution-decentralisation-9782364936751.html>. [AR=38.46%] [Post-proceedings – 1 review phase – short presentation]

- [N18] PICARD, Gauthier (2018). "Optimisation sous contraintes distribuée : une introduction au domaine". In: *Journées Francophones sur les Systèmes Multi-Agents*. Cépaduès, 2018, pp. 43–52. URL: <https://www.cephadues.com/livres/jfsma-2018-distribution-decentralisation-9782364936751.html>. [AR=21.15%] [Post-proceedings – 1 review phase]
- [N19] RUST, Pierre, PICARD, Gauthier, and RAMPARANY, Fano (2018b). "Mise en place d'une décision collective résiliente sur une infrastructure IoT à l'aide du framework pyDCOP". In: *Journées Francophones sur les Systèmes Multi-Agents*. Cépaduès, 2018, pp. 223–224. URL: <https://www.cephadues.com/livres/jfsma-2018-distribution-decentralisation-9782364936751.html>. [AR=85%] [Post-proceedings – 1 review phase]
- [N20] NAJJAR, Amro, BOISSIER, Olivier, and PICARD, Gauthier (2017d). "Négociation one-to-many adaptative pour améliorer l'acceptabilité des services d'un fournisseur SaaS". In: *25es Journées Francophones sur les Systèmes Multi-Agents (JFSMA)*. Cépaduès, 2017, pp. 85–94. URL: <http://www.cephadues.com/livres/jfsma-2017-cohesion-fondement-propriete-emergente-9782364936027.html>. [AR=27%] [Post-proceedings – 1 review phase]
- [N21] PICARD, Gauthier, BALBO, Flavien, and BOISSIER, Olivier (2017). "Approches multiagents pour l'allocation de courses à une flotte de taxis autonomes". In: *25es Journées Francophones sur les Systèmes Multi-Agents (JFSMA)*. Cépaduès, 2017, pp. 75–84. URL: <http://www.cephadues.com/livres/jfsma-2017-cohesion-fondement-propriete-emergente-9782364936027.html>. [AR=27%] [Post-proceedings – 1 review phase]
- [N22] RUST, Pierre, PICARD, Gauthier, and RAMPARANY, Fano (2017b). "Déploiement d'un graphe de facteurs pour l'exécution d'algorithme DCOP dans des environnements ambiants dynamiques". In: *25es Journées Francophones sur les Systèmes Multi-Agents (JFSMA)*. Cépaduès, 2017, pp. 95–104. URL: <http://www.cephadues.com/livres/jfsma-2017-cohesion-fondement-propriete-emergente-9782364936027.html>. [AR=48.6%] [Post-proceedings – 1 review phase]
- [N23] — (2016a). "Approche DCOP pour résoudre des problèmes de configuration économe d'environnements intelligents". In: *24es Journées Francophones sur les Systèmes Multi-Agents (JFSMA)*. Cépaduès, 2016, pp. 65–74. URL: <http://www.cephadues.com/livres/jfsma-2016-systemes-multi-agents-simulation-9782364935594.html>. [AR=59%] [Pre-proceedings – 1 review phase]
- [N24] CERQUIDES, Jesús, PICARD, Gauthier, and RODRÍGUEZ-AGUILAR, Juan Antonio (2015a). "Conception d'une place de marché pour la vente et la distribution d'énergie dans les smart grids". In: *23es Journées Francophones sur les Systèmes Multi-Agents (JFSMA'15)*. Ed. by L. VERCOUTER and G. PICARD. Cépaduès, 2015. URL: <http://www.cephadues.com/livres/jfsma-2015-systemes-multi-agents-environnements-socio-techniques-9782364931916.html>. [AR=31%] [Pre-proceedings – 1 review phase]
- [N25] SORICI, Alexandru, PICARD, Gauthier, BOISSIER, Olivier, and FLOREA, Adina (2015c). "Gestionnaire multi-agent de contexte pour les applications d'intelligence ambiante". In: *23es Journées Francophones sur les Systèmes Multi-Agents (JFSMA'15)*. Ed. by L. VERCOUTER and G. PICARD. Cépaduès, 2015. URL: <http://www.cephadues.com/livres/jfsma-2015-systemes-multi-agents-environnements-socio-techniques-9782364931916.html>. [AR=62%] [Pre-proceedings – 1 review phase]
- [N26] GALLAND, Stéphane, GAUD, Nicolas, RODRÍGUEZ, Sebastian, BALBO, Flavien, PICARD, Gauthier, and BOISSIER, Olivier (2014). "Contextualiser l'interaction entre agents en combinant dimensions sociale et physique au sein de l'environnement". In: *22es Journées Francophones sur les Systèmes Multi-Agents (JFSMA'14)*. Cépaduès, 2014. [AR=28%] [Pre-proceedings – 1 review phase – Best Paper Award]
- [N27] PICARD, Gauthier, VILLANUEVA, Diane, LE RICHE, Rodolphe, and HAFTKA, Raphael T. (2013). "Méthode multi-agent d'optimisation par partitionnement auto-organisé". In: *21es Journées francophones des systèmes multi-agents (JFSMA'13)*. Cépaduès, 2013. [AR=33%] [Pre-proceedings – 1 review phase]
- [N28] PIETTE, Eric, MORGE, Maxime, and PICARD, Gauthier (2013). "Swing++ : méthode multi-agents pour la résolution du problème des mariages stables". In: *Septièmes journées francophones Modèles Formels de l'Interaction (MFI'13)*. 2013.
- [N29] VILLANUEVA, Diane, PICARD, Gauthier, LE RICHE, Rodolphe, and HAFTKA, Raphael T. (2012c). "Optimisation multi-agent par partitionnement adaptatif de l'espace de conception". In: *20es Journées francophones des systèmes multi-agents (JFSMA'12)*. Cépaduès, 2012, pp. 149–158. [AR=50%] [Pre-proceedings – 1 review phase]
- [N30] EVERAERE, Patricia, MORGE, Maxime, and PICARD, Gauthier (2011). "Casanova : un comportement d'agent pour l'équité des mariages préservant la privacité". In: *19es Journées francophones des systèmes multi-agents (JFSMA'11)*. Cépaduès, 2011, pp. 203–212. [AR=32.5%] [Pre-proceedings – 1 review phase – Best Paper Award]
- [N31] PERSSON, Camille, PICARD, Gauthier, RAMPARANY, Fano, and BOISSIER, Olivier (2011c). "Organisation multi-agent pour la gouvernance de systèmes Machine-to-Machine". In: *19es Journées francophones des systèmes multi-agents (JFSMA'11)*. Cépaduès, 2011, pp. 11–20. [AR=32.5%] [Pre-proceedings – 1 review phase]

- [N32] YAICH, Reda, JAILLON, Philippe, BOISSIER, Olivier, and PICARD, Gauthier (2011c). “Gestion de la confiance et intégration des exigences sociales au sein de communautés virtuelles”. In: *19es Journées francophones des systèmes multi-agents (JFSMA’11)*. Cépaduès, 2011, pp. 213–222. [AR=48.8%] [Pre-proceedings – 1 review phase]
- [N33] KADDOUM, Elsy, GLEIZES, Marie-Pierre, GEORGÉ, Jean-Pierre, GLIZE, Pierre, and PICARD, Gauthier (2009a). “Analyse des critères d’évaluation de systèmes multi-agents adaptatifs”. In: *Journées Francophones sur les Systèmes Multi-Agents (JFSMA’09)*, Lyon, France, October 19-21. Ed. by Z. GUESSOUM and S. HASSAS. Cépaduès, 2009, pp. 123–124. [AR=23.5%] [Pre-proceedings – 1 review phase]
- [N34] PICARD, Gauthier, HÜBNER, Jomi F., BOISSIER, Olivier, and GLEIZES, Marie-Pierre (2009b). “Réorganisation et auto-organisation dans les systèmes multi-agents”. In: *Journées Francophones sur les Systèmes Multi-Agents (JFSMA’09)*, Lyon, France, October 19-21. Ed. by Z. GUESSOUM and S. HASSAS. Cépaduès, 2009, pp. 89–98. [AR=39.2%] [Pre-proceedings – 1 review phase]
- [N35] CLAIR, Gael, GLEIZES, Marie-Pierre, KADDOUM, Elsy, and PICARD, Gauthier (2008a). “Approches multi-agents auto-organisatrices pour un contrôle manufacturier intelligent et adaptatif”. In: *Journées Francophones sur les Systèmes Multi-Agents (JFSMA’08)*, Brest, France, Octobre 15-17. Cépaduès, 2008, pp. 191–200. [AR=40.7%] [Pre-proceedings – 1 review phase]
- [N36] PICARD, Gauthier, GLEIZES, Marie-Pierre, and GLIZE, Pierre (2007a). “Affectation distribuée de fréquences par auto-organisation coopérative”. In: *Journées Francophones sur les Systèmes Multi-Agents (JFSMA’07)*, Carcassonne, France, Octobre 17-19. Cépaduès, 2007, pp. 33–42. [AR=22.2%] [Pre-proceedings – 1 review phase]
- [N37] PICARD, Gauthier and GLEIZES, Marie-Pierre (2006a). “Auto-organisation coopérative pour la conception de collectifs adaptatifs et robustes”. In: *7ème Congrès de la Société Française de Recherche Opérationnelle et d’Aide à la Décision (ROADEF’06)*, 6, 7 et 8 Février 2006, Lille, France. Presses Universitaires de Valenciennes, 2006, pp. 385–400. [AR=58%] [Pre-proceedings – 1 review phase]
- [N38] PICARD, Gauthier (2005b). “Résolution d’emploi du temps dynamique et distribuée par auto-organisation coopérative”. In: *7<sup>es</sup> Rencontres des Jeunes Chercheurs en Intelligence Artificielle (RJCIA’05)*, Plate-forme AFIA, Nice. Presses Universitaires de Grenoble (PUG), 2005, pp. 127–140. ISBN: 2-7061-1285-9. [AR=55%] [Pre-proceedings – 1 review phase]
- [N39] PICARD, Gauthier and GLIZE, Pierre (2005g). “Modélisation et expérimentations d’une décision locale basée sur l’auto-organisation coopérative”. In: *Journées Francophones sur les Systèmes Multi-Agents (JFSMA’05)*, à Calais du 23 au 25 novembre 2005. Hermès-Lavoisier, 2005, pp. 161–174. [Pre-proceedings – 1 review phase]

## Theses

- [T1] PICARD, Gauthier (2014). “Systèmes multi-agents adaptatifs : ingénierie et utilisation dans le cadre de la résolution de problèmes”. Habilitation à diriger les recherches (HDR). Université Jean Monnet, Saint-Etienne, 2014.
- [T2] — (2004). “Méthodologie de développement de systèmes multi-agents adaptatifs et conception de logiciels à fonctionnalité émergente”. PhD thesis. Université Paul Sabatier Toulouse III, 2004.
- [T3] — (2001). “Etude de l’émergence comportementale d’un collectif de robots par auto-organisation coopérative”. Rapport de DEA. Université Paul Sabatier Toulouse III, 2001.

## Other Communications (peer-reviewed)

- [O1] BARRAULT, Romain, PRALET, Cédric, PICARD, Gauthier, and SAWYER, Eric (2025a). “Hybridation optimisation-apprentissage pour la planification d’observations par un satellite”. In: *Congrès annuel de la Société Française de Recherche Opérationnelle et d’Aide à la Décision (ROADEF-25)*. 2025. URL: <http://v4.event-vert.org/uploads/AbstractsBundle/ROADEF2025/summary-7355+BARRAULT++student+newMember+2025-01-14+09-49-07.pdf>. [Pre-proceedings – 1 review phase]
- [O2] LIGNY, Lucas, PICARD, Gauthier, ROUSSEL, Stéphanie, and VAREILLES, Elise (2025b). “Problèmes de configuration de flottes hétérogènes pour la planification de tâches”. In: *Congrès annuel de la Société Française de Recherche Opérationnelle et d’Aide à la Décision (ROADEF-25)*. 2025. URL: <http://v4.event-vert.org/uploads/AbstractsBundle/ROADEF2025/7297+LIGNY++regular+notMember+2024-12-06+12-26-45.pdf>. [Pre-proceedings – 1 review phase]
- [O3] BARRAULT, Romain, PRALET, Cédric, and PICARD, Gauthier (2024). “Optimisation des dates d’observation de sites par un satellite”. In: *Congrès annuel de la Société Française de Recherche Opérationnelle et d’Aide à la Décision (ROADEF-24)*. 2024. URL: <https://roadef2024.sciencesconf.org/510469/>. [Pre-proceedings – 1 review phase]

- [O4] PRALET, Cédric, FARGES, Jean-Loup, PICARD, Gauthier, STUDZINSKI PEROTTO, Filippo, GUERRA, Jonathan, and LUSSY, Cyrille de (2024). “Découpage de grandes zones pour l’observation de la Terre à l’aide de plusieurs constellations de satellites”. In: *Congrès annuel de la Société Française de Recherche Opérationnelle et d’Aide à la Décision (ROADEF-24)*. 2024. URL: <https://roadef2024.sciencesconf.org/510424>. [Pre-proceedings – 1 review phase]
- [O5] ROBBES, Alexis, PICARD, Gauthier, PRALET, Cédric, and ROUSSEL, Stéphanie (2024). “Partage de temps satellite pour l’observation régulière de grandes zones par une constellation”. In: *Congrès annuel de la Société Française de Recherche Opérationnelle et d’Aide à la Décision (ROADEF-24)*. 2024. URL: <https://roadef2024.sciencesconf.org/512139>. [Pre-proceedings – 1 review phase]
- [O6] SESMAT, Thomas, FARGES, Jean-Loup, PEROTTO, Filippo, and PICARD, Gauthier (2024). “Réseaux neuro-flous pour la transparence de l’inférence”. In: *Journées d’Intelligence Artificielle Hybride : de l’intégration des connaissances et de l’humain à l’explication des modèles (HyCHA’24)*. 2024.
- [O7] EL HAOUARI, Jihanne, PICARD, Gauthier, PRALET, Cédric, and ROUSSEL, Stéphanie (2023). “Planification de tâches d’observation de la Terre sous incertitudes météorologiques”. In: *Congrès annuel de la Société Française de Recherche Opérationnelle et d’Aide à la Décision (ROADEF-23)*. 2023. URL: <https://roadef2023.sciencesconf.org/434738/document>. [Pre-proceedings – 1 review phase]
- [O8] MAQROT, Sara, PICARD, Gauthier, PRALET, Cédric, and ROUSSEL, Stéphanie (2022a). “Allocation de chemins avec des préférences conflictuelles sous forme de graphes pour le partage d’orbites”. In: *23ème congrès annuel de la Société Française de Recherche Opérationnelle et d’Aide à la Décision (ROADEF)*. 2022. [No proceedings – 1 review phase (abstract)]
- [O9] PICARD, Gauthier, RUST, Pierre, and RAMPARANY, Fano (2019). “Coordination et résilience optimales d’objets intelligents”. In: *Un état des lieux sur les activités de recherche sur l’intelligence artificielle dans les écoles de l’IMT*. Poster. 2019. URL: <https://hal-emse.ccsd.cnrs.fr/emse-02102291>.
- [O10] BALBO, Flavien, BOISSIER, Olivier, and PICARD, Gauthier (2017). “Approche décentralisée pour l’allocation de courses à la demande à une flotte de taxis autonome”. In: *18ème édition du congrès annuel de la Société Française de Recherche Opérationnelle et d’Aide à la Décision (ROADEF)*. 2017. URL: [http://roadef2017.event.univ-lorraine.fr/abstracts/ROADEF2017\\_paper\\_153.pdf](http://roadef2017.event.univ-lorraine.fr/abstracts/ROADEF2017_paper_153.pdf). [No proceedings – 1 review phase (abstract)]
- [O11] RUST, Pierre, PICARD, Gauthier, and RAMPARANY, Fano (2017a). “Approche par optimisation distribuée pour la configuration autonome et spontanée d’environnements intelligents”. In: *18ème édition du congrès annuel de la Société Française de Recherche Opérationnelle et d’Aide à la Décision (ROADEF)*. 2017. URL: [http://roadef2017.event.univ-lorraine.fr/abstracts/ROADEF2017\\_paper\\_126.pdf](http://roadef2017.event.univ-lorraine.fr/abstracts/ROADEF2017_paper_126.pdf). [No proceedings – 1 review phase (abstract)]
- [O12] VILLANUEVA, Diane, HAFTKA, Raphael T., LE RICHE, Rodolphe, and PICARD, Gauthier (2013a). “Locating Multiple Designs with Dynamic Partitioning and Surrogates”. In: *10th World Congress on Structural and Multidisciplinary Optimization (WCSMO’13)*. ISSMO. 2013. [No proceedings – 1 review phase (abstract)]
- [O13] PICARD, Gauthier and MORGE, Maxime (2011). “Stratégie multi-agent pour la négociation d’appariements stables, équitables et optimaux”. In: *12e Congrès de la Société Française de Recherche Opérationnelle et d’Aide à la Décision (ROADEF’11)*, Saint-Etienne. 2011. [No proceedings – 1 review phase (abstract)]
- [O14] VILLANUEVA, Diane, LE RICHE, Rodolphe, PICARD, Gauthier, and HAFTKA, R. (2011a). “A Multi-Agent System Approach To Reliability Based Design Optimization Including Future Tests”. In: *12e Congrès de la Société Française de Recherche Opérationnelle et d’Aide à la Décision (ROADEF’11)*, Saint-Etienne. 2011. [No proceedings – 1 review phase (abstract)]
- [O15] YAICH, Reda, JAILLON, Philippe, PICARD, Gauthier, and BOISSIER, Olivier (2010). “Toward an adaptive trust policy model for open and decentralized virtual communities”. In: *Workshop on Trust and Reputation*. Interdisciplines, 2010. URL: <http://www.interdisciplines.org/paper.php?paperID=110>. [Online pre-proceedings – 1 review phase (abstract)]