Gauthier PICARD

Professor, PhD., Hab.
Senior Research Scientist
AI and Multi-Agent Systems

Office National d'Études et de Recherches Aérospatiales
2 Avenue Marc Pélegrin F-31055 Toulouse CEDEX 4, France
📞 *+33 (0) 5 62 25 26 54*
✉ *gauthier.picard@onera.fr*
🌐 *gauthier-picard.info*
in *gauthier-picard-27693522*
🆔 *0000-0002-9888-9906*

[Updated on 19/01/2026]

Contents

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 item *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

- ○ *Responsabilities*: 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_jO9XAn/view

Multi-agent Task Allocation Application to Earth Observation and Multi-Robot Exploration, *SPACERAISE*, L'Aquila, Italy
○ https://drive.google.com/file/d/1Rvh9SE318kxjkxbOQOrnyEjyC0J9fsRj/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

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

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

2024 **Program Chair** at International Workshop on Autonomous Agents and Multi-Agent Systems for Space Applications (MASSpace'24)
Chair of Atelier Défense et IA at Conférence Nationale en Intelligence Artificielle (CNIA'24)

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

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

2021 **Program Chair** at Workshop on Optimization and Learning in Multiagent Systems (OptLearn-MAS'21)
Tutorial Chair at Plate-Forme Intelligence Artificielle (PFIA'21)
Chair at Journée Enseignement et Formation en IA (EFIA'21)

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

2019 **Tutorial Chair** at Plate-Forme Intelligence Artificielle (PFIA'19)
Chair at Journée Enseignement et Formation en IA (EFIA'19)

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

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

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

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

| 2014 | **Doctoral Consortium Chair** at IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'14) |

| 2012 | **Organization Chair** at IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'12) |

| 2011 | **Demonstrations Chair** at IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT'11) |
| | **Session Chair** at congrès annuel de la Société française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF'11, Session on MDO) |

| 2009 | **Program Chair** at Workshop on Engineering Societies in the Agents World (ESAW'09) |

| 2008–2011 | **Steering Committee Member** of ESAW (Engineering Societies in the Agents World) |

| 2008 | **Program Chair** at Workshop on Engineering Societies in the Agents World (ESAW'08) |

| 2007 | **Session Chair** at Indian International Conference on Artificial Intelligence (IICAI'07, Session on Multi-Agent Systems) |

Event Organization Participation

| 2015 | **Local Organization Committee Member** of the Journées Francophones sur les Systèmes Multi-Agents (JFSMA'15) |

| 2012 | **Organization Chair** of the IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'12) |

| 2011 | **Local Organization Committee Member** of the IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT'11) |

| 2010 | **Local Organization Committee Member** of 12th European Agent Systems Summer School (EASSS'10) |
| | **Local Organization Committee Member** of the Multi-Agent Logics, Languages, and Organisations Federated Workshops (MALLOW'10) |

| 2009 | **Organization Committee Member** of the 10th international workshop Engineering Societies in the Agents' World (ESAW'09) |
| | Web Intelligence Summer School (WI'09) |

| 2008 | **Local Organization Committee Member** of the 9th international workshop Engineering Societies in the Agents' World (ESAW'08) |

| 2007 | **Local Organization Committee Member** of the Journées Francophones sur les Systèmes Multi-Agents (JFSMA'07) |

| 2004 | **Local Organization Committee Member** of the 5th international workshop Engineering Societies in the Agents' World (ESAW'04) |

Journals

| 2024+ | **Board Member** of the Artificial Intelligence Journal (AIJ) |

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

Program Committees

2026 **Area Chair**
- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'26)

Senior Programme Committee Member
- International Joint Conference on Artificial Intelligence (IJCAI-ECAI'26)

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

2025 **Area Chair**
- International Joint Conference on Artificial Intelligence (IJCAI'25)

Senior Program Committee Member
- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'25)

Program Committee Member
- European Conference on Artificial Intelligence (ECAI'25)
- International Conference on Principles and Practice of Multi-Agent Systems (PRIMA'25)
- International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'25)
- International Workshop on Planning & Scheduling for Space (IWPSS'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)
- nternational KES Conference on Agents and Multi-agent Systems, Technologies and Applications (AMSTA'14)
- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'14)
- International Workshop on Multi-Agent Systems and Simulation (MAS&S'14)

2013 **Program Committee Member**
- IEEE International Conference on Robotics and Automation (ICRA'13)
- International Joint Conference on Artificial Intelligence (IJCAI'13)
- Journées Francophones sur les Systèmes Multi-Agents (JFSMA'13)

2012 **Program Committee Member**
- Journées Francophones sur les Systèmes Multi-Agents (JFSMA'12)
- IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'12)
- International Workshop on Agent-Oriented Software Engineering (AOSE'12)
- International Workshop on Multi-Agent Systems and Simulation (MAS&S'12)
- International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'12)

2011 **Program Committee Member**
- International Workshop on Agent-Oriented Software Engineering (AOSE'11)
- International Design Engineering Technical Conferences and Computers and Information in Engineering Conference (IDETC'11)
- Indian International Conference on Artificial Intelligence (IICAI'11)
- IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'11)

2010 **Program Committee Member**
- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'10)
- Workshop on Bio-Inspired and Self-* Algorithms for Distributed Systems (BADS'10)
- International Workshop on Agent-Oriented Software Engineering (AOSE'10)
- IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'10)
- International Workshop on Web Intelligence & Communities (WIVE'10)

2009 **Program Committee Member**
- Workshop on Bio-Inspired and Self-* Algorithms for Distributed Systems (BADS'09)
- Workshop on Self-Adaptation for Robustness and Cooperation in Holonic MultiAgent Systems and in MultiAgent Systems (SARC'09)
- Indian International Conference on Artificial Intelligence (IICAI'09)
- International Conference on Intelligent Agent & Multi-Agent Systems (IAMA'09)
- IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'09, posters),

2008 **Program Committee Member**
- Workshop on Self-Adaptation for Robustness and Cooperation in Holonic MultiAgent Systems and in MultiAgent Systems (SARC'08)

2007 **Program Committee Member**
- Indian International Conference on Artificial Intelligence (IICAI'07)
- Rencontres des Jeunes Chercheurs en Intelligence Artificielle (RJCIA'07)

2005 **Program Committee Member**
- European Workshop on Multi-Agent Systems (EUMAS'05)

2004 **Program Committee Member**
- International Workshop on Engineering Societies in the Agents World (ESAW'04)
- European Workshop on Multi-Agent Systems (EUMAS'04)

2005–2012 **Extra reviewer** for 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`

2024–2028 **SICICOD**, *ONERA Federative Research Project*

Cooperative and interactive intelligent multi-robot systems for conducting defense operations
- ○ Role: coordinator
- ○ `https://w3.onera.fr/ailab/fr/projet/robotique-collective-et-perception-active-le-prf-sicicod`

2024–2028 **ASETIAH**, *ONERA Research Project*

Accelerating, Securing and Extending Artificial Intelligence with Hybrid Methods
- ○ Role: investigator on decision-focused learning
- ○ `https://w3.onera.fr/ailab/fr/projet/ia-hybride-le-pr-asetiah`

2023–2024 **PeriObs**, *CNES ITT*

Algorithms for Periodic Earth Observation Requests
- ○ Consortium: CNES, ADS, ONERA
- ○ Role: investigator on optimization techniques

2022–2025 **DOMINO-E**, *Horizon Europe*, 340k€

Earth Observation Multi-mission Federation Layer, coordinated by Airbus Defence and Space
- ○ Consortium: Airbus Defence and Space, Cap Gemini, ITTI, OIKOPLUS, ONERA, TILDE, VVA
- ○ Role: PI on Multi-Agent Resource Allocation
- ○ `https://domino-e.eu/`

2021–2024 **PARHéRo**, *ANR ASTRID*

Hybrid planning and learning methods for robust heterogeneous robotics
- ○ Consortium: Safran, ONERA, Université de Bordeaux
- ○ Role: investigator on multi-agent decisions and task allocation
- ○ `https://anr.fr/Projet-ANR-21-ASRO-0004`

2020–2023 **LiChIE**, *BPI PSPC*, 239k€

LION Chaine 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 Economia 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`

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 IRIT, 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

2025+ **Melvine Nargeot**, *Adjustment of Simulated Controls for Helicopter Trajectory Guidance Using Deep Reinforcement Learning*, PhD Airbus Helicopters, supervised with Filipo Perotto [30%]

2024+ **Laura Trujillo**, *Multimodal trip allocation in a MaaS framework using adaptive multi-agent systems*, PhD ONERA-Occitanie Region, supervised with Elsy Kaddoum [50%]

2024+ **Lucas Ligny**, *PERFECT: PErformant and Robust read-to-fly FlEet ConfiguraTion: from Robot to Mission Plan*, PhD DGA-ONERA, supervised with Élise Vareilles [35%] and Stéphanie Roussel [35%]

2024+ **Thibault Roux**, *Reinforcement Learning under the Risk of Ruin*, PhD ONERA, supervised with Filipo 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 AmI environment*, Master Universitatea Politehnica Bucuresti, EURAMUS

2011 **Mustapha BILAL**, *Multi-agent governance model for M2M networks: Application to a smart parking management system*, Master UTT, Orange Labs

2010 **Santiago VILLARREAL**, *Distributed constraint-based Optimisation and Social Choice*, Master EMSE/UJM

2008 **Gaël CLAIR**, *Self-organisation for manufacturing control based on multi-agent systems*, Master EMSE/UJM

2008 **Elsy KADDOUM**, *Self-regulation for manufacturing control using self-organising MAS*, Master IRIT/UPS

2006 **Florian CORNET**, *Study of a frequency assignment problem using adaptive multi-agent systems*, Master IRIT/UPS

Post-doctoral Researchers

2024–2025 **Hénoïk WILLOT**, *Federating Earth Observation Missions*, ONERA

2023–2024 **Alexis ROBBES**, *Satellite constellation sharing algorithms*, ONERA

2021–2022 **Sara MAQROT**, *Algorithms for fair sharing of satellite constellations*, ONERA

2012–2013 **Jeremy RIVIÈRE**, *Algorithms for finding local optima of expensive functions*, Mines Saint-Etienne

PhD Committees

2025 **Julien SOULÉ**, *On the Organization of a Cyberdefence Multi-Agent System (AICA)*, Université Grenoble Alpes, France, 2025, Nov 17th, **reviewer**

Esra AL HADHRAMI, *An Innovative Integration of JPDA-LSTM Synergy and Explainable AI for Enhanced Multi-Target Tracking and Radar Performance*, Sorbonne Université, France, 2025, Sep 19th, **reviewer**

Valentin Colliard, *Apprentissage par Renforcement Profond et Défense Aérienne : vers un outil d'aide à la décision robuste et explicable dans les centres de commande et de contrôle*, Sorbonne Université, France, 2025, Jul 15th, **chairman**

2024 **Ajdin Sumic**, *Dealing with interdependent activities, uncertain durations, and semantic interoperability in the temporal coordination of multi-agent plans*, Université de Technologie de Tarbes, France, 2024, Dec 19th, **chairman**

Hector Roussille, *Multi Agent Deep Reinforcement Learning for Blockchain Systems*, CEA, Université de Montpellier, France, 2024, Dec 6th, **chairman**

Déborah Conforto Nedelmann, *Vers le passage à l'échelle de l'allocation en ligne multi-agents multi-tâches*, Université de Toulouse, ISAE-Supaéro, France, 2024, Nov 26th, **chairman**

Maxence De Rochechouart, *Outil Multi-Agents collaboratif pour Meta-Senseur : Radar Principal avec Allocation de Ressources de Senseurs Auxiliaires pour une Surveillance Intégrée de l'Espace Aérien*, Sorbonne Université, France, 2024, Nov 4th, **reviewer**

Ben Rachmut, *Communication Awareness in Multi-Agent Optimization*, Ben-Gurion University of the Negev, Israel, 2024, Aug 1st, **reviewer**

Ellie Beauprez, *Système multi-agents adaptatif pour l'équilibrage de charge centré utilisateur*, Université de Lille, France, 2024, Jul 8th, **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 20th, **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 24th, **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 21st, **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 15th, **reviewer**

Jamy Chahal, *Multi-drone patrol and observation of mobile targets*, Sorbonne Université, France, 2023, Nov 30th, **reviewer**

Marc Vincent, *Reinforcement Learning for Multi-Function Radar Resource Management*, Sorbonne Université, France, 2023, Sep 9th

Adrià Fenoy Barceló, *Combining Optimization and Machine Learning for the Formation of Collectives*, Università degli Studi di Verona, Italy, 2023, Sep 28th, **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 6th, **reviewer**

Paul Breugnot, *Distribution and synchronisation of Multi-Agent Systems*, Université Bourgogne Franche-Comté, France, 2023, Mar 16th, **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 17th, **supervisor**

2021 **Coen van Leeuwen**, *Self-Organizing Multi-agent systems*, Delft Technical University, Netherlands, 2021, Feb 8th, **reviewer**

2018 **Thadeu Tucci**, *Distributed algorithms for programmable matter : target shape description and self-assembly planning*, Université Bourgogne Franche-Comté, France, 2018, Nov 12th, **chairman**

Francisco Cruz, *Enhancing Performance on Combinatorial Optimization Algorithms*, Universitat Autònoma de Barcelona, Spain, 2018, Oct 16th , **reviewer**

Maxime Velay, *Distributed optimization methods for the management of the security of interconnected power systems*, Université Grenoble Alpes, France, 2018, Sep 25th, **reviewer**

2017 **Julien Savaux**, *Privacy in Distributed Constrained Problems for Utility-based Agents*, Université de Valenciennes et du Hainaut-Cambrésis, France, 2017, Oct 25th, **reviewer**

Romaric Breil, *Multiagent system for air traffic self-structuring*, Université de Toulouse, France, 2017, Oct 3rd, **reviewer**

Arcady Rantrua, *Massive simulation of virtual world by means of adaptative multi-agent system*, Université de Toulouse, France, 2017, Feb 3rd, **reviewer**

2016 **Anatasia Damamme**, *A multiagent approach for resource sharing problems*, Université Paris 6, France, 2016, Dec 12th, **reviewer**

2016 **Filippo Bistaffa**, *Constraint Optimisation Techniques for Real-World Applications*, Università degli Studi di Verona, Italy, 2016, Apr 22nd, **reviewer**

Syed Gillani, *Semantically-enabled stream processing and complex event processing over RDF graph streams*, Université de Lyon, France, 2016, Oct 4th, **supervisor**

2015 **Alexandru Sorici**, *Multi-Agent Based Context Management Middleware In Support of Ambient Intelligence Applications*, University Politehnica of Bucharest and Ecole Nationale Superieure des Mines de Saint-Etienne, Romania/France, 2015, Sep 11th, **supervisor**

Sergio Esparcia García, *Integrating driving forces into the development of Adaptive Virtual Organizations*, Universitat Politècnica de València, Spain, 2015, Feb 24th

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 31st, **supervisor**

Luc Pons, *Self-tuning of game scenarios through self-adaptative multi-agent systems*, Université de Toulouse, France, 2014, Jul 7th

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 29th, **supervisor**

Tom Jorquera, *An adaptive multi-agent system for self-organizing continuous optimization*, Université de Toulouse, France, 2013, Oct 22nd

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 13th, **supervisor**

2008 **Sylvain Rougemaille**, *Ingénierie des systèmes multi-agents adaptatifs dirigée par les modèles*, Université de Toulouse, France, 2008, Oct 27th

Habilitation Committees

2025 **Guillaume Lozenguez**, *Décision distribuée et sous incertitude appliquée aux systèmes cyber-physiques mobiles*, IMT Nord Europe, France, 2025, Oct 22nd, **chairman**

2024 **Frédéric Armetta**, *Autonomie et représentation de l'environnement*, Université de Lyon, France, 2024, Dec 2nd, **reviewer**

Awards and Distinctions

2025 **ECAI-25**, *Outstanding Program Committee Member*, Top 2-3%

2024 **AREA-24**, *Best Paper Award at 4th International Workshop on Agents and Robots for reliable Engineered Autonomy*

2023 **AAMAS-23**, *Outstanding Program Committee Member*, Top 2-3%

2022 **IJCAI-22**, *Distinguished Program Committee Member*, Top 2-3%

PAIS-22, *Best Paper Award at 11th International Conference on Prestigious Applications of Intelligent Systems*

2017 **OptMAS-17**, *Best Paper Award at the 8th Workshop on Optimisation in Multi-Agent Systems*

ACAN-17, *Best Paper Award at the Workshop on Agent-based Complex Automated Negotiations*

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

Publications

Book Chapters

[B1] Guessom, Zahia, Mandiau, René, Mathieu, Philippe, Boissier, Olivier, Glize, Pierre, Hamri, Amine, Pesty, Sylvie, Picard, Gauthier, Sansonnet, Jean-Paul, Tessier, Catherine, and Tranvouez, Erwan (2012). "Systèmes multi-agents et Simulation". In: *Information, Interaction, Intelligence : le point sur le i[3]*. Cépaduès Editions, 2012, pp. 76–120. URL: https://hal-amu.archives-ouvertes.fr/hal-01488019.

[B2] Glize, Pierre and Picard, Gauthier (2011). "Self-Organisation in Constraint Problem Solving". In: *Self-organizing Software: From Natural to Artificial Adaptation*. Ed. by G. Serugendo, M.-P. Gleizes, and A. Karageorgos. Natural Computing Series. Springer, 2011. Chap. 14, pp. 347–377. ISBN: 978-3-642-17348-6. DOI: 10.1007/978-3-642-17348-6_14. URL: http://www.springer.com/computer/ai/book/978-3-642-17347-9. [Chapter on invitation – 1 review phase]

[B3] Bernon, Carole, Gleizes, Marie-Pierre, and Picard, Gauthier (2009). "Méthodes orientées agent et multi-agent". In: *Technologies des systèmes multi-agents et applications industrielles*. Ed. by A. El Fallah-Seghrouchni 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 traffic 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, Kévin, 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] Roux, Thibault, Perotto, Filipo, Farges, Jean-Loup, and Picard, Gauthier (2026). "Managing Critical Resources While Learning New Skills:A Transfer Approach for Hierarchical RL". In: *International Conference on Agents and Artificial Intelligence (ICAART-26)*. 2026. [Core B – Pre-proceedings – 1 review phase]

[C2] Sumic, Ajdin, Vidal, Thierry, Picard, Gauthier, Maris, Frédéric, Posenato, Roberto, and Combi, Carlo (2026). "Centralized and Distributed approaches for restoring the Weak Controllability of Multi-Agent Interdependent STNUs". In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS-26)*. 2026. [Extended abstract, Core A* – Pre-proceedings – 1 review phase]

[C3] 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]

[C4] 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]

[C5] Willot, Hénoïk, 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]

[C6] Farges, Jean-Loup, Perotto, Filipo, 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]

[C7]   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]

[C8]   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%]

[C9]   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]

[C10]   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.

[C11]   —   (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]

[C12]   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]

[C13]   —   (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]

[C14]   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. ENDRISS, 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]

[C15]   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. ENDRISS, 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]

[C16]   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. [Core A – Pre-proceedings – 1 review phase – Extended abstract]

[C17]   —   (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]

[C18] 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, CCIA 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]

[C19] 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]

[C20] 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]

[C21] 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]

[C22] — (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]

[C23] 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]

[C24] 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 (CCIA'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]

[C25] — (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. [AR=24.9%] [Core A* – Pre-proceedings – 1 review phase]

[C26] 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: `https://www.ifaamas.org/Proceedings/aamas2015/`. [AR=46.8%] [Core A* – Pre-proceedings – 1 review phase – Extended abstract]

[C27] — (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 DEMAZEAU 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]

[C28] 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]

[C29] 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]

[C30] SORICI, Alexandru, BOISSIER, Olivier, PICARD, Gauthier, and FLOREA, Adina (2015a). "Multi-Agent based Context Provisioning Deployment in AmI 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]

[C31] — (2015b). "Policy-based Adaptation of Context Provisioning in AmI". 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.

[C32] 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.

[C33] 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]

[C34] 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]

[C35] 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]

[C36] 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]

[C37] — (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]

[C38] 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]

[C39] — (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]

[C40] 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]

[C41] 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]

[C42] 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]

[C43] 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]

[C44] 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`. [AR=27.1%] [Pre-proceedings – 1 review phase]

[C45] 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]

[C46] 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]

[C47] 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]

[C48] 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]

[C49] 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]

[C50] 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]

[C51] 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). Univerity 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/8gqx5072vmbl32ta/`. [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-TV6FlFhqNgXZMzsJV4jUxqcoMSllhKA/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. [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. [Pre-proceedings – 1 review phase]

[W4] Willot, Hénoïk, 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.

[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://gauthier-picard.info/publications/rust18optmas.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/~wyeoh/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 16O/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-Seghrouchni. 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/3kc056tmvlbf78bn/. [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, Filipo, 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, Filipo, 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 laqualité 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 Artifcielle (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.cepadues.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.cepadues.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.cepadues.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.cepadues.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.cepadues.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.cepadues.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.cepadues.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). "Deploiement 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.cepadues.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.cepadues.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.cepadues.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.cepadues.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 partionnement 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 in-tégration 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). "Anal-yse 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 (JF-SMA'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), Carcas-sonne, 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: *7es 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 résolu-tion 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, Filipo, 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 degrandes 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, Filipo, 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. [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. [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 Francaise de Recherche Opérationnelle et d'Aide à la Decision (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 Francaise de Recherche Opérationnelle et d'Aide à la Decision (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)]