

# Gauthier PICARD

Professor, PhD., Hab.  
Senior Research Scientist in Artificial Intelligence  
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## Education

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

## Experience & Positions

- 2022+ **Directeur de Recherche / Senior Research Scientist**, ONERA, Toulouse, France
  - Member of Information processing and systems Department (DTIS)
  - Member of EDO Team (Requirements, Decision and Optimization)
  - Head of Artificial Intelligence Lab at ONERA (AILab)
  - *Research topics*: Multi-agents systems, distributed optimization, Resource and task allocation, Hybrid AI and Decision-focused Learning, Self-organisation, collective robotics, space systems, UAVs
  - *Research projects*: PR ASETIAH (2024-2027), PRF SICICOD (2024-2028, coordinator), HE DOMINO-E (2022-2025, PI), ANR PARHéRo (2021-2024), PSPC LiChIE (2020-2023)
- 2020-2022 **Research Scientist**, ONERA, Toulouse, France
  - Member of Information processing and systems Department (DTIS)
  - Member of EDO Team (Requirements, Decision and Optimization)
  - *Research projects*: HE DOMINO-E (2022-2025, PI), ANR PARHéRo (2021-2024), PSPC LiChIE (2020-2023)
- 2018+ **Full Professor (on secondment to ONERA)**, Ecole des Mines, Saint-Etienne, France
  - Computer Science and Intelligent Systems Department, Henri Fayol Institute
  - On secondment to ONERA since 2020
- 2015-2020 **Researcher**, Laboratoire Hubert Curien UMR CNRS 5516, Saint-Etienne, France
  - Member of Multi-Agent and Services project of the Connected Intelligence team
  - *Research topics*: Artificial intelligence, Multi-agent systems, self-organization, constraint satisfaction and optimization, smart grids, intelligent transport systems
  - *Research projects*: ANR ETHICAA (2013-2016), ITEA2 SEAS (2013-2016, PI)
- 2007-2018 **Associate Professor**, Ecole des Mines, Saint-Etienne, France
  - Computer Science and Intelligent Systems Department, Henri Fayol Institute
  - *Educational topics*: Object-oriented programming with Java, Object-oriented Analysis and Design with UML, Artificial Intelligence, Logics
  - *Research topics*: Artificial intelligence, multi-agent systems, self-organization, constraint satisfaction and optimization, robotics, smart grids, intelligent transport systems
  - *Research projects*: ANR ETHICAA (2013-2016), ITEA2 SEAS (2013-2016, PI), ANR ID4CS (2009-2013, PI), CMIRA-RRA MAOP (2012-2012), ISLE-RRA WI (2008-2012)
- 2006-2007 **Research Engineer**, IRIT CNRS UMR 5505, Université Paul Sabatier, Toulouse, France
  - *Responsibilities*: european projects arrangement & management, european relations
  - *Research topics*: Multi-agent systems, self-organization, constraint satisfaction and optimization, robotics

- 2004-2006 **Assistant Lecturer (ATER)**, *Université Paul Sabatier*, Toulouse, France
- Educational topics: Multi-agent systems, parallelism (C, JAVA), operating systems (UNIX, Linux and Windows), software engineering (Rational Rose, Eclipse), imperative and functional programming (CAML), artificial intelligence (CAML)
  - Research topics: Multi-agent systems, self-organization, constraint satisfaction and optimization, robotics
  - Research projects: RNTL ADELFE (2000-2003)

- 2001-2004 **Research Assistant and Teaching Assistant (Moniteur)**, *Université Paul Sabatier*, Toulouse, France
- PhD student, national funding due to merit
  - Educational topics: same as above
  - Research topics: Multi-agent systems, self-organization, agent-oriented software engineering
  - Research projects: RNTL ADELFE (2000-2003)
    - Developments and modelling: distributed time tabling solver (french national project ADELFE), collective robotics simulation platform, ADELFE platform, OpenTool enhancement to agent-oriented design
    - Modelling of an aeronautical mechanical design tool (european project SYNAMEC)
    - UML enhancement to multiagent-oriented design
    - Partnership with TNI-Valiosys

### Temporary

- 2021+ **Adjunct Instructor in Computer Science**, *ISAE-SUPAERO*, Toulouse, France
- Educational topics: linear optimization, combinatorial optimization, complexity theory

- 2021+ **Adjunct Instructor in Computer Science**, *Université Jean Jaurès*, Toulouse, France
- Educational topics: distributed constraint processing, optimization

- 2018-2020 **Visiting Researcher**, *IRIT, CNRS*, Toulouse, France

### Associations

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

## Teaching Activities

### Responsibilities

- 2019-2020 **Artificial Intelligence** (160h, Master 1-2), *Ecole des Mines*, Saint-Etienne, France
- <http://www.emse.fr/~picard/cours/ai/>
- 2017-2020 **Distributed and mobile computing** (25h, Master 1-2), *Ecole des Mines*, Saint-Etienne, France
- 2016-2020 **Master Program on Cyber-Physical and Social Systems** (Master 1-2), *Ecole des Mines*, Saint-Etienne, France
- <http://www.emse.fr/~picard/cours/cps2/>
- 2016-2020 **Multi-Agent Coordination** (25h, Master 1-2), *Ecole des Mines*, Saint-Etienne, France
- 2016-2018 **Internet-of-Things** (40h, Master 2), *Ecole des Mines*, Saint-Etienne, France
- <http://www.emse.fr/~picard/cours/iot/>
- 2014-2018 **Artificial Intelligence** (80h, Master 1), *Ecole des Mines*, Saint-Etienne, France
- <http://www.emse.fr/~picard/cours/ai/>
- 2014-2018 **Introduction to Formal Logics** (Licence 3), *Ecole des Mines*, Saint-Etienne, France
- 2014-2016 **Ambient Computing** (Master 2), *Ecole des Mines*, Saint-Etienne, France
- <http://www.emse.fr/~picard/cours/ac/>
- 2010-2014 **Information System Development** (Master 1), *Ecole des Mines*, Saint-Etienne, France
- <http://www.emse.fr/~picard/cours/devsi/>

- 2010-2014 **Object-oriented Programming** (Licence 3), *Ecole des Mines*, Saint-Etienne, France  
 ○ <http://www.emse.fr/~picard/cours/1A/java/>
- 2008-2014 **ICT Project Management** (Master 1), *Ecole des Mines*, Saint-Etienne, France  
 ○ <http://www.emse.fr/~picard/cours/2A/svn-trac/>  
 ○ <http://www.emse.fr/~picard/cours/2A/gp/>
- 2011-2012 **Introduction to Artificial Intelligence** (Licence 3), *Ecole des Mines*, Saint-Etienne, France  
 ○ <http://www.emse.fr/~picard/cours/1A/IA/>

### Teaching Duties

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

### Tutorials

- 2024 **Multi-Agent Distributed Constrained Optimization**, AAMAS, Auckland, New Zeland  
 ○ <https://www.gauthier-picard.info/dcop-tutorial/>
- 2023 **Multi-Agent Distributed Constrained Optimization**, AAMAS, London, United Kngdom  
 ○ <https://www.gauthier-picard.info/dcop-tutorial/>
- 2022 **Multi-Agent Distributed Constrained Optimization**, AAMAS, Auckland (Online), New Zeland  
 ○ <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-organisation and multi-agent systems**, EASSS, Saint-Etienne, France  
<https://events.mines-stetienne.fr/easss2010/programme.php>

## Committees and Reviewing Activities

### Responsibilities

- 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 (OptLearnMAS'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

- 2025 **Senior Program Committee Member**  
○ International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'25)
- 2024 **Program Chair**  
○ International Workshop on Autonomous Agents and Multi-Agent Systems for Space Applications (MASSpace'24)  
**Program Committee Member**  
○ International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'24)  
○ Conférence Nationale sur les Applications Pratiques de l'Intelligence Artificielle (APIA'24)  
○ European Conference on Artificial Intelligence (ECAI'24)  
○ International Joint Conference on Artificial Intelligence (IJCAI'24)  
○ Journées Francophones sur les Systèmes Multi-Agents (JFSMA'24)  
○ International Workshop on Optimization and Learning for Multi-Agent Systems (OptLearnMAS'24)  
○ International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'24)  
○ International Conference on the Principles and Practice of Multi-Agent Systems (PRIMA'24)
- 2023 **Senior Program Committee Member**  
○ European Conference on Artificial Intelligence (ECAI'23)  
**Program Committee Member**  
○ International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'23)  
○ International Joint Conference on Artificial Intelligence (IJCAI'23)  
○ Journées Francophones sur les Systèmes Multi-Agents (JFSMA'23)  
○ International Workshop on Optimization and Learning for Multi-Agent Systems (OptLearnMAS'23)  
○ International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'23)  
○ International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'23, Blue Sky Ideas)

2022 **Program Committee Member**

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

2021 **Program Chair**

- International Workshop on Optimization and Learning for Multi-Agent Systems (OptLearnMAS'21)

**Program Committee Member**

- IEEE International Conference on Autonomic Computing and Self-Organizing Systems (ACSOS'21)
- International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'21)
- International Workshop on EXplainable and TRANSPARENT AI and Multi-Agent Systems (EXTRAAMAS'21)
- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'21)
- International Joint Conference on Artificial Intelligence (IJCAI'21)
- AAAI Conference on Artificial Intelligence (AAAI'21)

2020 **Program Committee Member**

- ACM Web Conference (The WebConf'20)
- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'20)
- AAAI Conference on Artificial Intelligence (AAAI'20)
- European Conference on Artificial Intelligence (ECAI'20)
- IEEE International Conference on Autonomic Computing and Self-Organizing Systems (ACSOS'20)
- International Joint Conference on Artificial Intelligence (IJCAI'20)

2019 **Program Committee Member**

- Portuguese Conference on Artificial Intelligence (EPIA'19)
- International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'19)
- International Workshop on EXplainable and TRANSPARENT AI and Multi-Agent Systems (EXTRAAMAS'19)
- International Conference on Principles and Practice of Constraint Programming (CP'19)
- IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'19)
- International Workshop on Optimization for Multi-Agent Systems (OPTMAS'19)
- Journées Francophones sur les Systèmes Multi-Agents (JFSMA'19)
- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'19)
- AAAI Conference on Artificial Intelligence (AAAI'19)
- International Conference on Agents and Artificial Intelligence (ICAART'19)
- International Joint Conference on Artificial Intelligence (IJCAI'19)

2018 **Program Committee Member**

- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'18)
- AAAI Conference on Artificial Intelligence (AAAI'18)
- International Conference on Agents and Artificial Intelligence (ICAART'18)
- ACM Web Conference (WWW'18, Demo Track)
- AAAI Conference on Artificial Intelligence (SmartIoT@AAAI'18)
- International Joint Conference on Artificial Intelligence (IJCAI-ECAI'18)
- International Conference on Computers, Communications, and Systems (ICCS'18)
- International Conference on Principles and Practice of Constraint Programming (CP'18)
- International Workshop on Optimization for Multi-Agent Systems (OPTMAS'18)

2017 **Program Committee Member**

- International Joint Conference on Artificial Intelligence (IJCAI'17)
- International Workshop on Optimization for Multi-Agent Systems (OPTMAS'17)
- IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'17)
- Journées Francophones sur les Systèmes Multi-Agents (JFSMA'17)
- International Conference on the Principles and Practice of Multi-Agent Systems (PRIMA'17)
- International Workshop on Self-Adaptive and Self-Organising Socio-Technical Systems (SASO^ST'17)



- 2016 **Program Committee Member**
- International Workshop on Multi-Agent Systems and Simulation (MAS&S'16)
  - Ibero-American Conference on AI (IBERAMIA'16)
  - International Workshop on Optimization for Multi-Agent Systems (OPTMAS'16)
- 2015 **Program Committee Member**
- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'15)
  - International Symposium on Methodologies for Intelligent Systems (ISMIS'15)
  - Journées Francophones sur les Systèmes Multi-Agents (JFSMA'15)
  - International Workshop on Multi-Agent Systems and Simulation (MAS&S'15)
  - IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'15)
- 2014 **Program Committee Member**
- International Conference on High Performance Computing & Simulation (AHPC'14)
  - International KES Conference on Agents and Multi-agent Systems, Technologies and Applications (AMSTA'14)
  - International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'14)
  - International Workshop on Multi-Agent Systems and Simulation (MAS&S'14)
- 2013 **Program Committee Member**
- IEEE International Conference on Robotics and Automation (ICRA'13)
  - International Joint Conference on Artificial Intelligence (IJCAI'13)
  - Journées Francophones sur les Systèmes Multi-Agents (JFSMA'13)
- 2012 **Program Committee Member**
- Journées Francophones sur les Systèmes Multi-Agents (JFSMA'12)
  - IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'12)
  - International Workshop on Agent-Oriented Software Engineering (AOSE'12)
  - International Workshop on Multi-Agent Systems and Simulation (MAS&S'12)
  - International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'12)
- 2011 **Program Committee Member**
- International Workshop on Agent-Oriented Software Engineering (AOSE'11)
  - International Design Engineering Technical Conferences and Computers and Information in Engineering Conference (IDETC'11)
  - Indian International Conference on Artificial Intelligence (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

- 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-1e-prf-sicicod>
- 2024-2028 **ASETIAH**, ONERA Research Project  
Accelerating, Securing and Extending Artificial Intelligence with Hybrid Methods  
○ Role: investigator on decision-focused learning  
○ <https://w3.onera.fr/ailab/fr/projet/ia-hybride-le-pr-asetiah>
- 2023-2024 **PeriObs**, CNES ITT  
Algorithms for Periodic Earth Observation Requests  
○ Consortium: CNES, ADS, ONERA  
○ Role: investigator on optimization techniques
- 2022-2025 **DOMINO-E**, Horizon Europe, 340k€  
Earth Observation Multi-mission Federation Layer, coordinated by Airbus Defence and Space  
○ Consortium: Airbus Defence and Space, Cap Gemini, ITTI, OIKOPLUS, ONERA, TILDE, VVA  
○ Role: PI on Multi-Agent Resource Allocation  
○ <https://domino-e.eu/>
- 2021-2024 **PARHéRo**, ANR ASTRID  
Hybrid planning and learning methods for robust heterogeneous robotics  
○ Consortium: Safran, ONERA, Université de Bordeaux  
○ Role: investigator on multi-agent decisions and task allocation  
○ <https://anr.fr/Projet-ANR-21-ASRO-0004>
- 2020-2023 **LiChIE**, BPI PSPC, 239k€  
LION Chaîne Image Elargie, coordinated by Airbus Defence and Space  
○ Role: investigator on multi-agent techniques for orbit sharing and observation coordination
- 2020 **HyperAgent**, France-Switzerland ANR  
The HyperAgents project aims to enable the deployment of world-wide hybrid communities of people and autonomous agents on the Web.  
○ Consortium: Mines Saint-Etienne, INRIA, University of St Gallen  
○ Role: expertise in Distributed AI and Multiagent Systems  
○ <https://project.hyperagents.org/>
- 2016-2019 **Collectiveware**, Spanish Ministerio de Economía y Competitividad  
This project targets novel technologies that empower human collectives to operate micro-grids to achieve sustainable energy management by supporting their self-awareness, cooperation, and self-governance.  
○ Collaborator and funder: IIIA-CSIC  
○ [https://www.iiia.csic.es/en-us/research/project/?project\\_id=34](https://www.iiia.csic.es/en-us/research/project/?project_id=34)
- 2014-2017 **ETHICAA**, French ANR, 245k€  
ETHICs and Autonomous Agents  
○ Consortium: GREYC, Onera, LIP6, Télécom Ecole de Management, Ardans  
○ Model and implementation of collective ethical mechanisms  
○ <https://ethicaa.greyc.fr>
- 2013-2015 **SEAS**, European ITEA2, 89k€  
Smart Energy Aware Systems: enabling interoperability of systems producing energy, ICT and automation systems in consumption sites  
○ Cooperation between 6 countries (Finland, France, Portugal, Romania, Spain, Turkey)  
○ Ontology for Smart Grids ; privacy in Smart Grids ; automatic negotiation  
○ <http://www.itea2.org/project/index/view?project=10156>



- 2010-2012 **MAOP**, *Région Rhône-Alpes*  
Multi-Agent Oriented Programming for building complex software systems, in particular smart/intelligent decentralized systems
- Supervision of a Master Student from "Politehnica" University of Bucharest (ERASMUS)
  - Cooperation with DEIS, Alma Mater Studiorum Università di Bologna
  - Ambient Intelligence scenario description and prototype
  - <http://iscod.emse.fr/maop/>
- 2009-2013 **ID4CS**, *French ANR*  
Integrated Design for Complex Systems and Multi-Agents Systems
- Co-supervision of PhD student with University of Florida (multi-disciplinary optimization)
  - Cooperation with 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

- 2024+ **Thibault ROUX**, *Reinforcement Learning under the Risk of Ruin*, PhD ONERA, supervised with Filippo Perotto [50%]
- 2024+ **Victor GUILLET**, *Distributed Decision Architecture for Multi-Robot Systems and Interactions*, PhD DGA-ONERA, supervised with Charles Lesire [50%] and Christophe Grand
- 2023+ **Romain BARRAULT**, *Optimisation and Machine Learning for Earth observation with wearther uncertainties*, PhD CNES-ONERA, supervised with Cédric Pralet [50%]
- 2019-2022 **Alaa DAUD**, *Decentralized On-Demand Resource Allocation for Autonomous Vehicle Fleets*, PhD EMSE, supervised with Flavien Balbo [33%] and Paolo Gianessi [33%]
- 2015-2018 **Pierre RUST**, *Spontaneous coordination of connected objects in the Internet of Things*, PhD Orange Labs, supervised with Fano Ramparany [50%]
- 2013-2016 **Syed GILLANI**, *Context-aware negotiation in a distributed environment of independent power prosumers*, PhD UJM, supervised with Frédérique Laforest [50%]
- 2011-2015 **Alexandru SORICI**, *Multi-Agent Context Management for Support of Ambient Computing Applications*, Joint PhD UPB-EMSE, supervised with Adina Florea (UPB) [25%] and Olivier Boissier [25%]
- 2009-2014 **Camille PERSSON**, *Agile governance in M2M networks*, PhD ANRT CIFRE Orange Labs/EMSE, supervised with Olivier Boissier [25%] and Fano Ramparany [30%]
- 2009-2013 **Reda YAICH**, *Adaptation and evolution of trust policies within virtual communities*, PhD EMSE, supervised with Olivier Boissier [25%] and Philippe Jaillon [30%]
- 2010-2013 **Diane VILLANUEVA**, *Uncertainty propagation in multi-agent and multi-disciplinary optimization*, Joint PhD UF-EMSE, supervised with Rodolphe Le Riche [33%] and Raphael Haftka (UF) [33%]

### Master Students

- 2024 **Flavien MAS**, *Planning satellite observations for global monitoring of physical parameters*, ISAE-Supaéro
- 2023 **Victor GUILLET**, *Consensus-Based Auction Methods with Bid Intercession for SAR*, Master Aerospace Engineering TU Delft

- 2023 **Romain BARRAULT**, *Methods for solving multi-vehicle routing problems with time windows and time-dependent costs for satellite constellation management*, Master Parisien de Recherche Opérationnelle, ENSTA
- 2023 **Thomas SESMAT**, *Neuro-fuzzy networks with mixed weights*, INSA Toulouse
- 2022 **Jihanne EL HAOUARI**, *Earth Observation Satellite scheduling under weather uncertainties*, Master RO ENAC
- 2020 **Vincent COUSIN**, *QuaLAS: eco-friendly Quality of Life in Ambient Sociotechnical Systems*, Master DC Toulouse
- 2012 **Lucas CERQUEIRA MARTINS**, *Decentralized stable matching in mixed communities*, Master EMSE/UJM
- 2011 **Alexandru SORICI**, *Dynamic, reactive and pro-active context information aggregation in an Aml environment*, Master Universitatea Politehnica Bucuresti, EURAMUS
- 2011 **Mustapha BILAL**, *Multi-agent governance model for M2M networks: Application to a smart parking management system*, Master UTT, Orange Labs
- 2010 **Santiago VILLARREAL**, *Distributed constraint-based Optimisation and Social Choice*, Master EMSE/UJM
- 2008 **Gaël CLAIR**, *Self-organisation for manufacturing control based on multi-agent systems*, Master EMSE/UJM
- 2008 **Elsy 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

- 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

- 2024, Aug. 1st **Ben RACHMUT**, *Communication Awareness in Multi-Agent Optimization*, Ben-Gurion University of the Negev, Israel, **reviewer**
- 2024, Jul 8th **Ellie BEAUPREZ**, *Système multi-agents adaptatif pour l'équilibrage de charge centré utilisateur*, Université de Lille, France, **reviewer**
- 2024, Jun 20th **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, **reviewer**
- 2020, Jan 24th **Valentin POSTAT**, *Maillage hexaédrique structuré par blocs à l'aide de systèmes multi-agents avec apprentissage par renforcement*, Université Paris-Saclay, France, **reviewer**
- 2023, Dec 21st **Parham SHAMS**, *Procedures based on Exchanges and new Relaxations of Envy-Freeness in Fair Division of Indivisible Goods*, Sorbonne Université, France, **reviewer**
- 2023, Dec 15th **Sharyal ZAFAR**, *Optimized management of an active distribution network using AMAS combined with the RL bandit method*, École normale supérieure de Rennes, **reviewer**
- 2023, Nov 30th **Jamy CHAHAL**, *Multi-drone patrol and observation of mobile targets*, Sorbonne Université, France, **reviewer**
- 2023, Sep 9th **Marc VINCENT**, *Reinforcement Learning for Multi-Function Radar Resource Management*, Sorbonne Université
- 2023, Sep 28th **Adrià FENOY BARCELÓ**, *Combining Optimization and Machine Learning for the Formation of Collectives*, Università degli Studi di Verona, Italy, **reviewer**
- 2023, Jun 6th **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, **reviewer**
- 2023, Mar 16th **Paul BREUGNOT**, *Distribution and synchronisation of Multi-Agent Systems*, Université Bourgogne Franche-Comté, France, **reviewer**

- 2022, Jan 17th **Alaa DAUD**, *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, **supervisor**
- 2021, Feb 8th **Coen VAN LEEUWEN**, *Self-Organizing Multi-agent systems*, Delft Technical University, Netherlands, **reviewer**
- 2018, Nov 12th **Thadeu TUCCI**, *Distributed algorithms for programmable matter : target shape description and self-assembly planning*, Université Bourgogne Franche-Comté
- 2018, Oct 16th **Francisco CRUZ**, *Enhancing Performance on Combinatorial Optimization Algorithms*, Universitat Autònoma de Barcelona, Spain , **reviewer**
- 2018, Sep 25th **Maxime VELAY**, *Distributed optimization methods for the management of the security of interconnected power systems*, Université Grenoble Alpes, France, **reviewer**
- 2017, Oct 25th **Julien SAVAUX**, *Privacy in Distributed Constrained Problems for Utility-based Agents*, Université de Valenciennes et du Hainaut-Cambrésis, France, **reviewer**
- 2017, Oct 3rd **Romarc BREIL**, *Multiagent system for air traffic self-structuring*, Université de Toulouse, France, **reviewer**
- 2017, Feb 3rd **Arcady RANTRUA**, *Massive simulation of virtual world by means of adaptative multi-agent system*, Université de Toulouse, France, **reviewer**
- 2016, Dec 12th **Anatasia DAMAMME**, *A multiagent approach for resource sharing problems*, Université Paris 6, France, **reviewer**
- 2016, Apr 22nd **Filippo BISTAFFA**, *Constraint Optimisation Techniques for Real-World Applications*, Università degli Studi di Verona, Italy, **reviewer**
- 2016, Oct 4th **Syed GILLANI**, *Semantically-enabled stream processing and complex event processing over RDF graph streams*, Université de Lyon, France, **supervisor**
- 2015, Sep 11th **Alexandru SORICI**, *Multi-Agent Based Context Management Middleware In Support of Ambient Intelligence Applications*, University Politehnica of Bucharest and Ecole Nationale Supérieure des Mines de Saint-Etienne, Romania/France, **supervisor**
- 2015, Feb 24th **Sergio ESPARCIA GARCÍA**, *Integrating driving forces into the development of Adaptive Virtual Organizations*, Universitat Politècnica de València, Spain
- 2014, Oct 31st **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, **supervisor**
- 2017, Jul 7th **Luc PONS**, *Self-tuning of game scenarios through self-adaptative multi-agent systems*, Université de Toulouse, France
- 2013, Oct 29th **Reda YAICH**, *Adaptiveness and Social-Compliance in Trust Management - A Multi-Agent Based approach*, Ecole Nationale Supérieure des Mines de Saint-Etienne, France, **supervisor**
- 2013, Oct 22nd **Tom JORQUERA**, *An adaptive multi-agent system for self-organizing continuous optimization*, Université de Toulouse, France
- 2013, May 13th **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, **supervisor**
- 2008, Oct 27th **Sylvain ROUGEMAILLE**, *Ingénierie des systèmes multi-agents adaptatifs dirigée par les modèles*, Université de Toulouse, France

## 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, 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. Chap. 14, pp. 347–377. ISBN: 978-3-642-17348-6. DOI: 10.1007/978-3-642-17348-6\_14. URL: <http://www.springer.com/computer/ai/book/978-3-642-17347-9>. [Chapter on invitation – 1 review phase]

- [B3] BERNON, Carole, GLEIZES, Marie-Pierre, and PICARD, Gauthier (2009). “Méthodes orientées agent et multi-agent”. In: *Technologies des systèmes multi-agents et applications industrielles*. Ed. by A. EL FALLAH-SEGHRUCHNI and J.-P. BRIOT. Collection IC2. Hermès. 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. 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. 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. 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*. Cepaduès, p. 250.
- [E3] VERCOUTER, Laurent and PICARD, Gauthier, eds. (2015). *Journées Francophones sur les Systèmes Multi-Agents (JFSMA'15) – Environnements socio-techniques*. Cepaduès.
- [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, 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, 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, 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, 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. 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, 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, 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, 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, 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, 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, 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, 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, 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, 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, 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, pp. 223–247. DOI: 10.3166/ria.32.223-247.
- [A15] CABRI, Giacomo, PICARD, Gauthier, and SURJ, Niranjana (2017). "SASO 2016: Selected, Revised, and Extended Best Papers". In: *ACM Transactions on Autonomous and Adaptive Systems (TAAS)* 12.3, 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, pp. 251–268. DOI: 10.3233/WEB-170361. [Q4, IF=0.89]
- [A17] GALLAND, Stéphane, BALBO, Flavien, GAUD, Nicolas, RODRÍGUEZ, Sebastian, PICARD, Gauthier, and BOISSIER, Olivier (2016). "Environnement multidimensionnel pour contextualiser les interactions des agents dans le cadre de la modélisation du trafic routier urbain". In: *Revue d'Intelligence Artificielle* 30.1-2, pp. 81–108. DOI: 10.3166/RIA.30.81-108.
- [A18] SORICI, Alexandru, PICARD, Gauthier, BOISSIER, Olivier, ZIMMERMANN, Antoine, and FLOREA, Adina (2015d). "CONCERT : Applying Semantic Web Technologies to Context Modeling in Ambient Intelligence". In: *Computers and Electrical Engineering - An International Journal* 44, 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, pp. 315–338. DOI: 10.3233/WIA-130278. URL: <http://iospress.metapress.com/content/q2659685221703r7/?issue=4&genre=article&page=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, 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, 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, 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, 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. 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. 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] FARGES, Jean-Loup, PEROTTO, Filippo, PICARD, Gauthier, PRALET, Cédric, DE LUSSY, Cyrille, GUERRA, Jonathan, PAVERO, Philippe, and PLANCHOU, Fabrice (2024a). "Going Beyond Mono-Mission Earth Observation: Using the Multi-Agent Paradigm to Federate Multiple Missions". In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS-24)*. IFAAMAS, pp. 2674–2678. URL: <https://dl.acm.org/doi/10.5555/3635637.3663256>. [AR=23%] [Core A\* – Pre-proceedings – 1 review phase]
- [C2] 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, pp. 2297–2299. URL: <https://dl.acm.org/doi/10.5555/3635637.3663139>. [AR=23%] [Core A\* – Pre-proceedings – 1 review phase]
- [C3] 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, pp. 299–306. DOI: 10.1016/j.procs.2023.03.039. [AR=31%]
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### International Workshops (peer-reviewed)

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- [W3] 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, pp. 104–107. URL: <https://ceur-ws.org/Vol-3509/paper14.pdf>.
- [W4] 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)*.
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- [W7] 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 (IWPS'21)*. arXiv: 2106.03548. URL: <https://arxiv.org/abs/2106.03548>.
- [W8] 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, pp. 9–15. URL: <https://sites.google.com/unimib.it/att2020/>.
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- [N3] 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)*. [No proceedings – 1 review phase]
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- [N9] 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)*, pp. 25–33.
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