Gauthier PICARD

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

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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

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

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

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

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

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

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

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

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

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

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

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

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

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

2011 **Demonstrations Chair** at IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT'11)

Session Chair at congrès annuel de la Société française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF'11, Session on MDO)

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

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

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

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

Event Organization Participation

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

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

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

2010 **Local Organization Committee Member** of 12th European Agent Systems Summer School (EASSS'10)

Local Organization Committee Member of the Multi-Agent Logics, Languages, and Organisations Federated Workshops (MALLOW'10)

2009 **Organization Committee Member** of the 10th international workshop Engineering Societies in the Agents' World (ESAW'09)

Web Intelligence Summer School (WI'09)

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

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

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

Journals

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

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

Program Committees

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

2025 **Area Chair**
○ International Joint Conference on Artificial Intelligence (IJCAI'25)
Senior Program Committee Member
○ International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'25)
Program Committee Member
○ European Conference on Artificial Intelligence (ECAI'25)
○ International Conference on Principles and Practice of Multi-Agent Systems (PRIMA'25)
○ International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'25)
○ International Workshop on Planning & Scheduling for Space (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 (MASS-pace'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 (AM-STA'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 **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-adaptive 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.

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