Gauthier PICARD

Professor, PhD., Hab. Senior Research Scientist AI and Multi-Agent Systems Office National d'Études et de Recherches Aérospatiales 2 Avenue Marc Pélegrin F-31055 Toulouse CEDEX 4, France

→ +33 (0) 5 62 25 26 54

gauthier.picard@onera.fr
gauthier-picard.info

in gauthier-picard-27693522 © 0000-0002-9888-9906

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Education

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

Experience & Positions

2022+ Directeur de Recherche / Senior Research Scientist, ONERA, Toulouse, France

- Member of Information processing and systems Department (DTIS)
- Member of EDO Team (Requirements, Decision and Optimization)
- Head of Artificial Intelligence Lab at ONERA (AILab)
- Research topics: Multi-agents systems, distributed optimization, Resource and task allocation, Hybrid AI and Decision-focused Learning, Self-organisation, collective robotics, space systems, UAVs
- Research projects: ANR AGREENET (2025-2029, PI), ANR OMNEOS (2025-2029), FED SPIDER (2025-2026),
 PR ASETIAH (2024-2027), PRF SICICOD (2024-2028, coordinator), HE DOMINO-E (2022-2025, PI), ANR PARHÉRO (2021-2024), PSPC LiChIE (2020-2023)

2020–2022 Research Scientist, ONERA, Toulouse, France

- Member of Information processing and systems Department (DTIS)
- Member of EDO Team (Requirements, Decision and Optimization)
- o 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

- O 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

- O 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
- O Research projects: ANR ETHICAA (2013-2016), ITEA2 SEAS (2013-2016, PI)

2007–2018 **Associate Professor**, *Ecole des Mines*, Saint-Etienne, France

- O 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, selforganization, 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

- O 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)
- O Research topics: Multi-agent systems, self-organization, constraint satisfaction and optimization, robotics
- O Research projects: RNTL ADELFE (2000-2003)

2001-2004 Research Assistant and Teaching Assistant (Moniteur), Université Paul Sabatier, Toulouse, France

- O PhD student, national funding due to merit
- O Educational topics: same as above
- Research topics: Multi-agent systems, self-organization, agent-oriented software engineering
- O 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

- O 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
- O Coordinator of the Education working group (2018-2023)
- O 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

o 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

o 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 o http://www.emse.fr/~picard/cours/iot/ 2014–2018 Artificial Intelligence (80h, Master 1), Ecole des Mines, Saint-Etienne, France o 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 o http://www.emse.fr/~picard/cours/ac/ 2010–2014 Information System Development (Master 1), Ecole des Mines, Saint-Etienne, France o http://www.emse.fr/~picard/cours/devsi/ 2010-2014 Object-oriented Programming (Licence 3), Ecole des Mines, Saint-Etienne, France o http://www.emse.fr/~picard/cours/1A/java/ 2008–2014 ICT Project Management (Master 1), Ecole des Mines, Saint-Etienne, France o http://www.emse.fr/~picard/cours/2A/svn-trac/ o http://www.emse.fr/~picard/cours/2A/gp/ 2011–2012 Introduction to Artificial Intelligence (Licence 3), Ecole des Mines, Saint-Etienne, France o http://www.emse.fr/~picard/cours/1A/IA/ **Teaching Duties** 2021+ Distributed Constraint Processing (12h, Master 2), Université Jean Jaurès, Toulouse, France o 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 O Licence 3: Introduction à l'informatique (langage C), Introduction à la logique formelle, Programmation orientée objet (Java) Master 1: Intelligence artificielle O Master 2: Informatique ambiante (Android), Introduction aux smart grids, Projets industriels, Projets recherche 2014–2020 Master Web Intelligence, Ecole des Mines, Saint-Etienne, France O Master 2: Système multiagents, Résolution et optimisation multiagents (Jason) 2007-2014 Ingénieur civil des Mines Curriculum, Ecole des Mines, Saint-Etienne, France O 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) O 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 O 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
 - O 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 O Master 1: Intelligence artificielle (systèmes experts, apprentissage)

Tutorials

- 2025 Multi-agent Coordination using Distributed Constraint Optimization and Auction-based **Techniques**, *PFIA*, Dijon, France
 - o https://drive.google.com/file/d/1pxhW8Dr5sdfirgTPQQ7FypYkd_j09XAn/view

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

- o https://drive.google.com/file/d/1Rvh9SE318kxjkxb0Q0rnyEjyC0J9fsRj/view
- 2024 Multi-Agent Distributed Constrained Optimization, AAMAS, Auckland, New Zealand ohttps://www.gauthier-picard.info/dcop-tutorial/
- 2023 Multi-Agent Distributed Constrained Optimization, AAMAS, London, United Kingdom

 ohttps://www.gauthier-picard.info/dcop-tutorial/
- 2022 **Multi-Agent Distributed Constrained Optimization**, *AAMAS*, Auckland (Online), New Zealand Ohttps://www.gauthier-picard.info/dcop-tutorial/
- 2020 **Distributed Constraint Optimization for the Internet-of-Things**, *ECAI*, Santiago de Compostela (Online), Spain
 - o https://www.emse.fr/~picard/dcop4iot/
- 2020 **Distributed Constraint Optimization for the Internet-of-Things**, *PFIA*, Angers (Online), France o 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 Ohttps://www2.isye.gatech.edu/~fferdinando3/cfp/AAMAS19/
- 2018 **Distributed Constraint Optimization for the Internet-of-Things**, *EASSS*, Maastricht, Netherlands
 - o https://project.dke.maastrichtuniversity.nl/easss/
- 2010 **Self-organization and multi-agent systems**, *EASSS*, Saint-Etienne, France
 - o 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)
- **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)
- **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)

- 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

- O 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)
- O 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)
- O Conférence Nationale sur les Applications Pratiques de l'Intelligence Artificielle (APIA'24)
- O European Conference on Artificial Intelligence (ECAI'24)
- O International Joint Conference on Artificial Intelligence (IJCAI'24)
- O 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

O European Conference on Artificial Intelligence (ECAI'23)

Program Committee Member

- O International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'23)
- International Joint Conference on Artificial Intelligence (IJCAI'23)
- O 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)
- O International Workshop on Optimization and Learning for Multi-Agent Systems (OptLearnMAS'22)
- O IEEE International Conference on Autonomic Computing and Self-Organizing Systems (ACSOS'22)
- O 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)
- O 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)
- O 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

- O 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)
- O International Workshop on Optimization for Multi-Agent Systems (OPTMAS'19)
- O Journées Francophones sur les Systèmes Multi-Agents (JFSMA'19)
- O 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)
- O International Conference on Agents and Artificial Intelligence (ICAART'18)
- O ACM Web Conference (WWW'18, Demo Track)
- O 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)
- O International Workshop on Optimization for Multi-Agent Systems (OPTMAS'17)
- IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'17)
- O Journées Francophones sur les Systèmes Multi-Agents (JFSMA'17)
- International Conference on the Principles and Practice of Multi-Agent Systems (PRIMA'17)
- O International Workshop on Self-Adaptive and Self-Organising Socio-Technical Systems (SASO^ST'17)

2016 Program Committee Member

- O 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)
- O 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)
- O International Workshop on Multi-Agent Systems and Simulation (MAS&S'14)

2013 Program Committee Member

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

2012 Program Committee Member

- O 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)
- O 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)
- O 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)
- O 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

- O 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)
- O Indian International Conference on Artificial Intelligence (IICAI'09)
- O International Conference on Intelligent Agent & Multi-Agent Systems (IAMA'09)
- O 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)
- O Rencontres des Jeunes Chercheurs en Intelligence Artificielle (RJCIA'07)

2005 Program Committee Member

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

2004 Program Committee Member

- International Workshop on Engineering Societies in the Agents World (ESAW'04)
- O 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

- O 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
- O Cooperation with LAAS-CNRS and Prométhée Earth Intelligence

2025–2027 **SPIDER**, European Defense Fund

Space based Persistent ISR for Defence and Europe Reinforcement

- O Role: expert on algorithmics and ground segment
- o https://defence-industry-space.ec.europa.eu/system/files/2023-06/SPIDER-Factshe et_EDF22.pdf

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

Cooperative and interactive intelligent multi-robot systems for conducting defense operations

- O Role: coordinator
- o https://w3.onera.fr/ailab/fr/projet/robotique-collective-et-perception-active-l e-prf-sicicod

2024-2028 ASETIAH, ONERA Research Project

Accelerating, Securing and Extending Artificial Intelligence with Hybrid Methods

- O Role: investigator on decision-focused learning
- o https://w3.onera.fr/ailab/fr/projet/ia-hybride-le-pr-asetiah

2023-2024 PeriObs, CNES ITT

Algorithms for Periodic Earth Observation Requests

- O Consortium: CNES, ADS, ONERA
- O 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
- O Role: PI on Multi-Agent Resource Allocation
- o https://domino-e.eu/

2021-2024 PARHéRo, ANR ASTRID

Hybrid planning and learning methods for robust heterogeneous robotics

- O Consortium: Safran, ONERA, Université de Bordeaux
- O Role: investigator on multi-agent decisions and task allocation
- o 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.

- O Consortium: Mines Saint-Etienne, INRIA, University of St Gallen
- O Role: expertise in Distributed AI and Multiagent Systems
- o 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.

- O Collaborator and funder: IIIA-CSIC
- o https://www.iiia.csic.es/en-us/research/project/?project_id=34

2014-2017 ETHICAA, French ANR, 245k€

ETHICs and Autonomous Agents

- O Consortium: GREYC, Onera, LIP6, Télécom Ecole de Management, Ardans
- Model and implementation of collective ethical mechanisms
- o 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

- O Cooperation between 6 countries (Finland, France, Portugal, Romania, Spain, Turkey)
- Ontology for Smart Grids; privacy in Smart Grids; automatic negotiation
- o 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

- O Supervision of a Master Student from "Politehnica" University of Bucharest (ERASMUS)
- O Cooperation with DEIS, Alma Mater Studiorum Universita di Bologna
- Ambient Intelligence scenario description and prototype
- o 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)
- O Cooperation with IRIT, Airbus, IMT, ICA, Upetec
- Coordinator of the agent modeling work package
- o 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
- o http://www.web-intelligence-rhone-alpes.org/

2001-2004 ADELFE, French RNTL

Agent-oriented software engineering for adaptive and emergent multi-agent systems

- O ADELFE is one of the most renown agent-oriented methodology
- Development of AdelfeToolkit to help designers to follow the ADELFE process
- o 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%]
- **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%]
- **Thibault Roux**, *Reinforcement Learning under the Risk of Ruin*, PhD ONERA, supervised with Filipo Perotto [50%]
- Victor Guillet, Distributed Decision Architecture for Multi-Robot Systems and Interactions, PhD DGA-ONERA, supervised with Charles Lesire [50%] and Christophe Grand
- **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

Flavien Mas, Planning satellite observations for global monitoring of physical parameters, ISAE-Supaéro

- **Victor Guillet**, Consensus-Based Auction Methods with Bid Intercession for SAR, Master Aerospace Engineering TU Delft
- **Romain Barrault**, Methods for solving multi-vehicle routing problems with time windows and timedependent costs for satellite constellation management, Master Parisien de Recherche Opérationnelle, FNSTA
- 2023 **Thomas Sesmat**, Neuro-fuzzy networks with mixed weights, INSA Toulouse
- **Jihanne El Haouari**, Earth Observation Satellite scheduling under weather uncertainties, Master RO ENAC
- **Vincent Cousin**, Qualatise 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
- **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
- **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 Magrot, Algorithms for fair sharing of satellite constellations, ONERA
- Jeremy Rivière, Algorithms for finding local optima of expensive functions, Mines Saint-Etienne PhD Committees
 - 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, chair
 - **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, **chair**

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

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

Maxence De Rochechouart, Outil Multi-Agents collaboratif pour Meta-Senseur : Radar Principal avec Allocation de Ressources de Senseurs Auxiliaires pour une Surveillance Intégrée de l'Espace Aérien, Sorbonne Université, France, 2024, Nov 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**
- **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**
- 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**
- **Thadeu Tucci**, Distributed algorithms for programmable matter: target shape description and self-assembly planning, Université Bourgogne Franche-Comté, France, 2018, Nov 12th, **chair**
 - **Francisco Cruz**, Enhancing Performance on Combinatorial Optimization Algorithms, Universitat Autònoma de Barcelona, Spain, 2018, Oct 16th, **reviewer**
 - $\label{lem:management} \textbf{Maxime Velay}, \textit{Distributed optimization methods for the management of the security of interconnected power systems, Universit\'e Grenoble Alpes, France, 2018, Sep 25th,$ **reviewer**
- 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**
- **Anatasia Damamme**, *A multiagent approach for resource sharing problems*, Université Paris 6, France, 2016, Dec 12th, **reviewer**
- **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**
- Alexandru Sorici, Multi-Agent Based Context Management Middleware In Support of Ambient Intelligence Applications, University Politehnica of Bucharest and Ecole Nationale Superieure des Mines de Saint-Etienne, Romania/France, 2015, Sep 11th, supervisor
 - **Sergio Esparcia García**, Integrating driving forces into the development of Adaptive Virtual Organizations, Universitat Politècnica de València, Spain, 2015, Feb 24th

- 2014 **Camille Persson**, A Decentralized and Distributed Adaptive Governance for Machine-to-Machine Systems A Multi-Agent Oriented Programming Approach, Ecole Nationale Supérieure des Mines de Saint-Etienne, France, 2014, Oct 31st, **supervisor**
 - **Luc Pons**, Self-tuning of game scenarios through self-adaptative multi-agent systems, Université de Toulouse, France, 2014, Jul 7th
- **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

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

Publications

Book Chapters

- [B1] GUESSOM, Zahia, MANDIAU, René, MATHIEU, Philippe, BOISSIER, Olivier, GLIZE, Pierre, HAMRI, Amine, PESTY, Sylvie, PICARD, Gauthier, SANSONNET, Jean-Paul, TESSIER, Catherine, and TRANVOUEZ, Erwan (2012). "Systèmes multi-agents et Simulation". In: *Information, Interaction, Intelligence: le point sur le i[3]*. Cépaduès Editions, 2012, pp. 76–120. URL: https://hal-amu.archives-ouvertes.fr/hal-01488019.
- [B2] GLIZE, Pierre and PICARD, Gauthier (2011). "Self-Organisation in Constraint Problem Solving". In: Self-organizing Software: From Natural to Artificial Adaptation. Ed. by G. Serugendo, M.-P. Gleizes, and A. Karageorgos. Natural Computing Series. Springer, 2011. Chap. 14, pp. 347–377. ISBN: 978-3-642-17348-6. DOI: 10. 1007/978-3-642-17348-6_14. URL: http://www.springer.com/computer/ai/book/978-3-642-17347-9. [Chapter on invitation 1 review phase]
- [B3] Bernon, Carole, Gleizes, Marie-Pierre, and Picard, Gauthier (2009). "Méthodes orientées agent et multi-agent". In: Technologies des systèmes multi-agents et applications industrielles. Ed. by A. El Fallah-Seghrouchni and J.-P. Briot. Collection IC2. Hermès, 2009. Chap. 2, pp. 45–76. Url: http://www.lavoisier.fr/livre/notice.asp?ouvrage=2138883. [Chapter on invitation 1 review phase]
- [B4] Bernon, Carole, Camps, Valérie, Gleizes, Marie-Pierre, and Picard, Gauthier (2005). "Engineering Self-Adaptive Multi-Agent Systems: the ADELFE Methodology". In: Agent-Oriented Methodologies. Ed. by B. Henderson-Sellers and P. Giorgini. Idea Group Publishing, 2005. Chap. 7, pp. 172–202. doi: 10.4018/978-1-59140-581-8.ch007. url: http://www.igi-global.com/book/agent-oriented-methodologies/62.[Chapter on invitation-2 review phases]
- [B5] Picard, Gauthier and Gleizes, Marie-Pierre (2004b). "The ADELFE Methodology Designing Adaptive Cooperative Multi-Agent Systems". In: Methodologies and Software Engineering for Agent Systems. Ed. by F. Bergenti, M-P. Gleizes, and F. Zambonelli. Vol. 11. Multiagent Systems, Artificial Societies, And Simulated Organizations. Kluwer Publishing, 2004. Chap. 8, pp. 157–176. ISBN: 1-4020-8057-3. DOI: 10.1007/1-4020-8058-1_11. URL: http://www.springerlink.com/content/ku3714781x30q625/. [Chapter on invitation 2 review phases]

Book and Journal Editions

- [E1] PICARD, Gauthier, SABOURET, Nicolas, and SIMONIN, Olivier, eds. (2022b). *Revue Ouverte d'Intelligence Artificielle*. Vol. 3. 5-6. Cellule MathDoc/CEDRAM, 2022. DOI: 10.5802/roia.37en.
- [E2] PICARD, Gauthier, LANG, Christophe, and MARILLEAU, Nicolas, eds. (2018b). Journées Francophones sur les Systèmes Multi-Agents (JFSMA'18) Distribution et décentralisation. Cépaduès, 2018, p. 250.
- [E3] Vercouter, Laurent and Picard, Gauthier, eds. (2015). Journées Francophones sur les Systèmes Multi-Agents (JFSMA'15) Environnements socio-techniques. Cépaduès, 2015.

- [E4] ALDEWERELD, Huib, DIGNUM, Virginia, and PICARD, Gauthier, eds. (2009). Engineering Societies in the Agents World X 10th International Workshop, ESAW 2009, Utrecht, The Netherlands, November 18-20, 2009. Vol. 5881. Lecture Notes in Artificial Intelligence (LNAI). Springer, 2009, p. 258. ISBN: 978-3-642-10202-8. DOI: 10.1007/978-3-642-10203-5. URL: http://www.springer.com/computer/ai/book/978-3-642-10202-8.
- [E5] ARTIKIS, Alexander, PICARD, Gauthier, and VERCOUTER, Laurent, eds. (2008). Engineering Societies in the Agents World IX 9th International Workshop, ESAW 2008, Saint-Etienne, France, September 24-26, 2008, Revised Selected Papers. Vol. 5485. Lecture Notes in Artificial Intelligence (LNAI). Springer, 2008, p. 281. ISBN: 978-3-642-02561-7.

 DOI: 10.1007/978-3-642-02562-4. URL: http://www.springer.com/computer/ai/book/978-3-642-02561-7.

Journal Articles

- [A1] DAOUD, Alaa, BALBO, Flavien, GIANESSI, Paolo, and PICARD, Gauthier (2023a). "AV-OLRA: Une modélisation générique pour le problème de l'allocation des ressources dans le domaine du transport à la demande". In: Revue Ouverte d'Intelligence Artificielle 4.2 (2023), pp. 169–192. DOI: 10.5802/roia.61. URL: https://roia.centre-mersenne.org/item/10.5802/roia.61.pdf.
- [A2] Picard, Gauthier (2023b). "Enchères et optimisation multiagent pour la planification de tâches d'observation dans une constellation de satellites". In: *Revue Ouverte d'Intelligence Artificielle* 4.2 (2023), pp. 147–168. DOI: 10.5802/roia.60. URL: https://roia.centre-mersenne.org/item/10.5802/roia.60.pdf.
- [A3] ROUSSEL, Stéphanie, PICARD, Gauthier, PRALET, Cédric, and MAQROT, Sara (2023b). "Conflicting Bundle Allocation with Preferences in Weighted Directed Acyclic Graphs: Application to Orbit Slot Allocation Problems". In: Systems 11.6 (2023). ISSN: 2079-8954. DOI: 10.3390/systems11060297. URL: https://www.mdpi.com/2079-8954/11/6/297. [Q2, IF=2.895]
- [A4] PICARD, Gauthier, SABOURET, Nicolas, and SIMONIN, Olivier (2022a). "Introduction (EN)". In: Revue Ouverte d'Intelligence Artificielle 3.5-6 (2022), pp. 419–421. DOI: 10.5802/roia.37en.
- [A5] RUST, Pierre, PICARD, Gauthier, and RAMPARANY, Fano (2022a). "Resilient Distributed Constraint Reasoning to Autonomously Configure and Adapt IoT Environments". In: *ACM Transactions on Internet Technology* 22.4 (2022), pp. 1–31. DOI: http://dx.doi.org/10.1145/3507907. [Q1, IF=4.67]
- [A6] (2022b). "Résilience et auto-réparation de processus de décisions multi-agents pour le développement d'environnements intelligents Application à l'auto-configuration d'environnements intelligents". In: Revue Ouverte d'Intelligence Artificielle (ROIA) 3.5-6 (2022), pp. 587-623. DOI: 10.5802/roia.44. URL: https://roia.centre-mersenne.org/item/10.5802/roia.44.pdf.
- [A7] CERQUIDES, Jesús, RODRÍGUEZ-AGUILAR, Juan Antonio, EMONET, Rémi, and PICARD, Gauthier (2021). "Solving highly cyclic distributed optimization problems without busting the bank: a decimation-based approach". In: Logic Journal of the IGPL 29.1 (2021), pp. 72–95. ISSN: 1367-0751. DOI: 10.1093/jigpal/jzaa069. URL: https://doi.org/10.1093/jigpal/jzaa069. [Q1, IF=1.26]
- [A8] DAOUD, Alaa, BALBO, Flavien, GIANESSI, Paolo, and PICARD, Gauthier (2021d). "ORNInA: A Decentralized, Auction-based Multi-agent Coordination in ODT Systems". In: *AI Communications* 34.1 (2021), pp. 37–53. DOI: 10.3233/AIC-201579. URL: https://content.iospress.com/articles/ai-communications/aic201579. [Q2, IF = 1.841]
- [A9] NAJJAR, Amro, Mualla, Yazan, Singh, Kamal, Picard, Gauthier, Calvaresi, Davide, Malhi, Avleen, Galland, Stéphane, and Främling, Kary (2021). "One-to-Many Negotiation QoE Management Mechanism for End-user Satisfaction". In: *IEEE Access* 9 (2021), pp. 59231–59243. DOI: 10.1109/ACCESS.2021.3071646. [Q1, IF=3.367]
- [A10] GILLANI, Syed, ZIMMERMANN, Antoine, PICARD, Gauthier, and LAFOREST, Frédérique (2019). "A Query Language for Semantic Complex Event Processing: Syntax, Semantics and Implementation". In: *Semantic Web Journal* 10.1 (2019), pp. 53–93. DOI: 10.3233/SW-180313. [Q1, IF=3.524]
- [A11] PHAM TRAN ANH, Quang, SINGH, Kamal, BRADAI, Abbas, PICARD, Gauthier, and RIGGIO, Roberto (2019). "Adaptive Allocation Algorithms for Service Function Chains: Single and Multi-domain orchestration". In: *IEEE Transactions on Network and Service Management* 16.1 (2019), pp. 98–112. DOI: 10.1109/TNSM.2018.2876623. URL: https://ieeexplore.ieee.org/document/8494813. [Q1, IF=3.286]
- [A12] NAJJAR, Amro, PICARD, Gauthier, and BOISSIER, Olivier (2018c). "Négociation multi-agents résistante aux pics de charge pour améliorer l'acceptabilité des services d'un fournisseur SaaS ouvert". In: *Revue d'Intelligence Artificielle* 32.5-6 (2018), pp. 603–625. DOI: 10.3166/ria.32.603-625.
- [A13] PHAM TRAN ANH, Quang, SINGH, Kamal, RODRÍGUEZ-AGUILAR, Juan Antonio, PICARD, Gauthier, PIAMRAT, Kandaraj, CERQUIDES, Jesús, and VIHO, César (2018). "AD3-GLAM: A Cooperative Distributed QoE-based Approach for SVC Video Streaming over Wireless Mesh Networks". In: Ad Hoc Networks 80 (2018), pp. 1–15. DOI: 10.1016/j.adhoc.2018.07.005. URL: https://www.sciencedirect.com/science/article/pii/S157087051830461X. [Q1, IF=3.151]

- [A14] PICARD, Gauthier, BALBO, Flavien, and BOISSIER, Olivier (2018a). "Approches multiagents pour l'allocation de courses à une flotte de taxis autonomes". In: *Revue d'Intelligence Artificielle* 32.2 (2018), pp. 223–247. DOI: 10. 3166/ria.32.223-247.
- [A15] CABRI, Giacomo, PICARD, Gauthier, and SURI, Niranjan (2017). "SASO 2016: Selected, Revised, and Extended Best Papers". In: *ACM Transactions on Autonomous and Adaptive Systems (TAAS)* 12.3 (2017), pp. 1–3. DOI: 10. 1145/3127332. [Q2, IF=1.216]
- [A16] YAICH, Reda, BOISSIER, Olivier, PICARD, Gauthier, and JAILLON, Philippe (2017). "Impact of Social Influence on Trust Management within Communities of Agents". In: Web Intelligence, An International Journal 15.3 (2017), pp. 251–268. DOI: 10.3233/WEB-170361. [Q4, IF=0.89]
- [A17] GALLAND, Stéphane, BALBO, Flavien, GAUD, Nicolas, RODRÍGUEZ, Sebastian, PICARD, Gauthier, and BOISSIER, Olivier (2016). "Environnement multidimensionnel pour contextualiser les interactions des agents dans le cadre de la modélisation du traffic routier urbain". In: *Revue d'Intelligence Artificielle* 30.1-2 (2016), pp. 81–108. DOI: 10.3166/RIA.30.81-108.
- [A18] Sorici, Alexandru, Picard, Gauthier, Boissier, Olivier, Zimmermann, Antoine, and Florea, Adina (2015d). "CONSERT: Applying Semantic Web Technologies to Context Modeling in Ambient Intelligence". In: Computers and Electrical Engineering An International Journal 44 (2015), pp. 280–306. DOI: 10.1016/j.compeleceng. 2015.03.012. URL: http://www.sciencedirect.com/science/article/pii/S0045790615000993. [Q1, IF=4.163]
- [A19] YAICH, Reda, BOISSIER, Olivier, PICARD, Gauthier, and JAILLON, Philippe (2013). "Adaptiveness and Social-Compliance in Trust Management within Virtual Communities". In: Web Intelligence and Agent Systems (WIAS) 11.4 (2013), pp. 315-338. DOI: 10.3233/WIA-130278. URL: http://iospress.metapress.com/content/q2659685221703r7/?issue=4&genre=article&spage=315&issn=1570-1263&volume=11.[Q4, IF=0.89]
- [A20] EVERAERE, Patricia, MORGE, Maxime, and PICARD, Gauthier (2012). "Casanova: un comportement d'agent pour l'équité des mariages préservant la privacité". In: *Revue d'Intelligence Artificielle* 26.5 (2012), pp. 471–494. DOI: 10.3166/ria.26.471-494. URL: http://ria.revuesonline.com/article.jsp?articleId=17808.
- [A21] GLEIZES, Marie-Pierre, BERNON, Carole, MIGEON, Frédéric, and PICARD, Gauthier (2008). "Méthodes de développement de systèmes multi-agents". In: Génie Logiciel, GL & IS 86 (2008), pp. 2–7.
- [A22] OTTENS, Kévin, PICARD, Gauthier, and CAMPS, Valérie (2006). "Transformation de modèles d'agents dans la méthode ADELFE: Des stéréotypes de conception à l'implémentation". In: Revue Technique et Science Informatique L'objet 12.4 (2006), pp. 43–72. DOI: 10.3166/objet.12.4.43-72. URL: http://objet.e-revues.com/article.jsp?articleId=9174.
- [A23] PICARD, Gauthier and GLIZE, Pierre (2006b). "Model and Analysis of Local Decision Based on Cooperative Self-Organization for Problem Solving". In: *Multiagent and Grid Systems An International Journal (MAGS)* 2.3 (2006), pp. 253–265. DOI: 10.3233/MGS-2006-2304. URL: http://content.iospress.com/articles/multiagent-and-grid-systems/mgs00042. [Q2, IF=0.96]
- [A24] PICARD, Gauthier, BERNON, Carole, CAMPS, Valérie, and GLEIZES, Marie-Pierre (2003a). "ADELFE: Atelier de développement de logiciels à fonctionnalité émergente". In: *Revue Technique et Science Informatique* 22.4 (2003). Ed. by J.P. BRIOT and K. GHEDIRA, pp. 387–391. URL: http://tsi.revuesonline.com/article.jsp? articleId=4789.
- [A25] PICARD, Gauthier and GLEIZES, Marie-Pierre (2003b). "Outils pour la réalisation de systèmes multi-agents adaptatifs dans le cadre de la méthode ADELFE". In: *Revue Technique et Science Informatique* 22.4 (2003). Ed. by J.P. BRIOT and K. GHEDIRA, pp. 249–253. URL: http://tsi.revuesonline.com/article.jsp?articleId=4777.

International Conferences (peer-reviewed)

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International Workshops (peer-reviewed)

- [W1] BARRAULT, Romain, PRALET, Cédric, PICARD, Gauthier, SAWYER, Eric, and CHAN-HON-TONG, Adrien (2025c). "Learning the Feasibility of Sets of Acquisition Tasks for Earth Observation Satellites". In: *International Workshop on Planning and Scheduling for Space (IWPSS-25)*. 2025. URL: https://drive.google.com/file/d/1-TV6F1FhqNgXZMzsJV4jUxqcoMS1lhKA/view?usp=sharing.[Pre-proceedings-1 review phase]
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