

Curriculum Vitæ

Gauthier PICARD

DIRECTEUR DE RECHERCHE / SENIOR RESEARCH SCIENTIST, PHD, HAB.

Applied Artificial Intelligence and Distributed Optimization

Information processing and systems Department (DTIS)
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EDUCATION

2014	Habilitation à diriger les recherches (HDR) in Computer Science (UJM, France) <ul style="list-style-type: none">— Adaptive multiagent systems: engineering and problem solving
2004	PhD in Computer Science (IRIT, Toulouse III, France) <ul style="list-style-type: none">— Multiagent-oriented methodology
2001	DEA in Artificial Intelligence (equivalent to MSc) (IRIT, Toulouse III, France) <ul style="list-style-type: none">— with honours (Ranking: 2nd), obtain PhD thesis funding on merit— Master thesis on collective robotics
2000	Maîtrise and Licence in Computer Science (equivalent to BSc) (Toulouse III, France) <ul style="list-style-type: none">— with honours (first 5%), obtain Master thesis funding on merit
1998	DEUG in Mathematics and Computer Science (2-year university degree) (Pau, France)
1995	Baccalauréat in Maths & Physics (secondary school diploma) (Clermont-Fd, France)

WORK EXPERIENCE & POSITIONS

from 2022	Directeur de Recherche / Senior Research Scientist at Intelligent Systems and Decision Unit (SYD), Information processing and systems Department (DTIS) of ONERA (Office national d'études et de recherches aérospatiales), Toulouse, France <ul style="list-style-type: none">— Head of Artificial Intelligence Lab at ONERA (AILab)
2020-2022	Research Scientist at Intelligent Systems and Decision Unit (SYD), Information processing and systems Department (DTIS) of ONERA (Office national d'études et de recherches aérospatiales), Toulouse, France
from 2018	Full Professor (on secondment at ONERA) at Computer Science and Intelligent Systems Department, Henri Fayol Institute of the École Nationale Supérieure des Mines de Saint-Etienne (ENSM.SE), France
2018-2020	Visiting Researcher at IRIT (Institute of Research in Computer Science of Toulouse), France
2015-2020	Researcher in the Multi-Agent and Services project, of the Connected Intelligence team, Laboratoire Hubert Curien UMR CNRS 5516, France <ul style="list-style-type: none">— <i>Research topics:</i> Artificial intelligence, Multi-agent systems, self-organization, constraint satisfaction and optimization, smart grids, intelligent transport systems— <i>Research projects:</i> ANR ETHICAA, ITEA2 SEAS

2007-2018	Associate Professor (<i>Maître-Assistant des Ecoles des Mines</i>) at Computer Science and Intelligent Systems Department, Henri Fayol Institute of the École Nationale Supérieure des Mines de Saint-Etienne (ENSM.SE), France <ul style="list-style-type: none"> — <i>Educational topics</i>: Object-oriented programming with Java, Object-oriented Analysis and Design with UML, Artificial Intelligence, Logics — <i>Research topics</i>: Artificial intelligence, multi-agent systems, self-organization, constraint satisfaction and optimization, robotics, smart grids, intelligent transport systems — <i>Research projects</i>: ANR ETHICAA, ITEA2 SEAS, ANR ID4CS, CMIRA-RRA MAOP, ISLE-RRA WI — <i>Supervision</i>: 5 PhD students, 5 master students, 1 Postdoc student
2006-2007	Research and european relations engineer at IRIT (Institute of Research in Computer Science of Toulouse), France <ul style="list-style-type: none"> — <i>Responsabilities</i>: european projects arrangement & management, european relations — <i>Research topics</i>: Multi-agent systems, self-organization, constraint satisfaction and optimization, robotics
2004-2006	Attaché temporaire d'enseignement et recherche (equivalent to assistant lecturer) at the University Paul Sabatier of Toulouse, France <ul style="list-style-type: none"> — <i>Educational topics</i>: 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) — <i>Research topics</i>: Multi-agent systems, self-organization, constraint satisfaction and optimization, robotics — Partnership with ONERA (G. Verfaillie) – co-supervision of MS Student on frequency assignment — <i>Research projects</i>: RNTL ADELFE — <i>Supervision</i>: 1 master student
2001-2004	Moniteur et Allocataire de Recherche (PhD student national funding due to merit) at the University Paul Sabatier of Toulouse, France <ul style="list-style-type: none"> — <i>Educational topics</i>: same as above — <i>Research topics</i>: Multi-agent systems, self-organization, agent-oriented software engineering — <i>Developments and modelling</i>: distributed time tabling solver (french national project ADELFE), collective robotics simulation platform, ADELFE platform, OpenTool enhancement to agent-oriented design — <i>Modelling</i> of an aeronautical mechanical design tool (european project SYNAMEC) — UML enhancement to multiagent-oriented design — <i>Partnership</i> with TNI-Valiosys

COURSE PROGRAM RESPOSABILITIES

2019-2020	Artificial Intelligence (160h) (Master 1,2) http://www.emse.fr/~picard/cours/ai/
2017-2020	Distributed and mobile computing (25h) (Master 1,2)
2016-2020	Master Program on Cyber-Physical and Social Systems (CPS2) (Master 1,2) http://www.emse.fr/~picard/cours/cps2/
2016-2020	Multi-Agent Coordination (25h) (Master 1,2)
2016-2018	Internet-of-Things 40h) (Master 2) http://www.emse.fr/~picard/cours/iot/
2014-2018	Artificial Intelligence (80h) (Master 1) http://www.emse.fr/~picard/cours/ai/
Since 2014	Introduction to Formal Logics (Licence 3)
2014-2016	Ambient Computing (Master 2) http://www.emse.fr/~picard/cours/ac/

2010-2014	Information System Development (Master 1) http://www.emse.fr/~picard/cours/2A/devsi/
2008-2014	Object-oriented Programming (Licence 3) http://www.emse.fr/~picard/cours/1A/java/
2008-2014	ICT Project Management (Master 1) 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) http://www.emse.fr/~picard/cours/1A/IA/

TEACHING DUTIES

2021+	Distributed Constraint Processing (8h) (Master 2) https://www.gauthier-picard.info/files/lecture-DCSP-2021.pdf
2021+	Linear Programming and Integer Linear Programming (Licence 3, Master 1) https://www.isae-supero.fr/en/
2021+	Computational complexity (2h) (Master 1) https://www.isae-supero.fr/en/
2021+	Optimization for Space System Design and Operations (20h) (Master 1) https://www.isae-supero.fr/en/
2014-2020	1^e année “Ingénieur Civil des Mines” (L3) — Introduction à l’informatique (langage C), Introduction à la logique formelle, Programmation orientée objet (Java) 2^e année “Ingénieur Civil des Mines” (M1) — Intelligence artificielle 3^e année “Ingénieur Civil des Mines” (M1) — Informatique ambiante (Android), Introduction aux smart grids, Projets industriels, Projets recherche Master Web Intelligence (M2) — Système multiagents, Résolution et optimisation multiagents (Jason)
2007-2014	1^e année “Ingénieur Civil des Mines” (L3) — Introduction à l’informatique, langages et concepts de programmation (langage C), systèmes d’information (MySQL, OpenOffice), Langages et concepts de programmation orientée objet (Java)
2007-2014	2^e année “Ingénieur Civil des Mines” (M1) — Analyse et conception (UML), Gestion de projets informatiques, Développement de systèmes informatiques (Postgres, J2E, Django, Rails, Android) 3^e année “Ingénieur Civil des Mines” (M2) et Master Web Intelligence — Système multiagents, Auto-organisation (NetLogo), Résolution et optimisation multiagents (Jason)
2010-2011	École d’été EASSS et échange ERASMUS à Bucharest — Tutoriel sur l’auto-organisation dans les systèmes multiagents
2007-2011	Mastère Spécialisé en Génie Logiciel — Analyse et conception (UML), J2EE, Projet de développement informatique
2001-2006	Master (M1) en informatique de l’Université de Toulouse — Intelligence artificielle (CAML), Programmation avancée Java, Programmation parallèle (C, Java), Analyse et conception (UML, Rationale Rose), Robotique collective Licence (L1, L2) en sciences de l’Université de Toulouse — Systèmes d’exploitation (UNIX), Introduction à l’informatique, Introduction à la programmation (Turbo Pascal), Programmation fonctionnelle (CAML), Traitement de texte (OpenOffice) IUP (M1) en Technologies et méthodologie du médical — Intelligence artificielle (systèmes experts, apprentissage)

COMMITTEES & INVOLVEMENT

Chairs	<p>Program Chair at MASSpace'24, OptLearnMAS'21, JFSMA'18, SASO'16, ESAW'09, ESAW'08</p> <p>Chair at EFIA'23, EFIA'22, EFIA'21, EFIA'19</p> <p>Workshop Chair at SASO'15</p> <p>Tutorial Chair at PFIA'21, PFIA'20, PFIA'19</p> <p>Doctoral Consortium Chair at SASO'14</p> <p>Steering Committee member for ESAW (Engineering Societies in the Agents World)</p> <p>Session Chair at ROADEF'11 (Session on MDO), IJCAI'07 (Session on Multi-Agent Systems)</p> <p>Demo Chair at WI-IAT'11</p> <p>Organisation Chair at SASO'12</p>
Committees	<p>International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'25)</p> <p>International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'24)</p> <p>Conférence Nationale sur les Applications Pratiques de l'Intelligence Artificielle (APIA'24)</p> <p>European Conference on Artificial Intelligence (ECAI'24)</p> <p>International Joint Conference on Artificial Intelligence (IJCAI'24)</p> <p>Journées Francophones sur les Systèmes Multi-Agents (JFSMA'24)</p> <p>International Workshop on Optimization and Learning for Multi-Agent Systems (OptLearn-MAS'24)</p> <p>International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'24)</p> <p>International Conference on the Principles and Practice of Multi-Agent Systems (PRIMA'24)</p> <p>International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'23)</p> <p>European Conference on Artificial Intelligence (ECAI'23)</p> <p>International Joint Conference on Artificial Intelligence (IJCAI'23)</p> <p>Journées Francophones sur les Systèmes Multi-Agents (JFSMA'23)</p> <p>International Workshop on Optimization and Learning for Multi-Agent Systems (OptLearn-MAS'23)</p> <p>International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'23)</p> <p>International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'23, Blue Sky Ideas)</p> <p>International Symposium on Distributed Autonomous Robotic Systems (DARS'22)</p> <p>International Workshop on Optimization and Learning for Multi-Agent Systems (OptLearn-MAS'22)</p> <p>IEEE International Conference on Autonomic Computing and Self-Organizing Systems (AC-SOS'22)</p> <p>Portuguese Conference on Artificial Intelligence (EPIA'22)</p> <p>International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'22)</p> <p>International Workshop on EXplainable and TRAnsparent AI and Multi-Agent Systems (EX-TRAAMAS'22)</p> <p>International Joint Conference on Artificial Intelligence (IJCAI-ECAI'22)</p> <p>ACM Web Conference (The WebConf'22)</p> <p>International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'22)</p> <p>AAAI Conference on Artificial Intelligence (AAAI'22)</p> <p>IEEE International Conference on Autonomic Computing and Self-Organizing Systems (AC-SOS'21)</p> <p>International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'21)</p> <p>International Workshop on EXplainable and TRAnsparent AI and Multi-Agent Systems (EX-TRAAMAS'21)</p> <p>International Workshop on Optimization and Learning for Multi-Agent Systems (OptLearn-MAS'21)</p> <p>International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'21)</p> <p>International Joint Conference on Artificial Intelligence (IJCAI'21)</p>

AAAI Conference on Artificial Intelligence ([AAAI'21](#))
 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 ([AC-SOS'20](#))
 International Joint Conference on Artificial Intelligence ([IJCAI'20](#))
 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 ([EX-TRAAMAS'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](#))
 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](#))
 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](#))
 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](#))
 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](#))
 International Conference on High Performance Computing & Simulation ([AHPC'14](#))
 International KES Conference on Agents and Multi-agent Systems, Technologies and Applications ([AMSTA'14](#))
 International Conference on Autonomous Agents and Multi-Agent Systems ([AAMAS'14](#))
 International Workshop on Multi-Agent Systems and Simulation ([MAS&S'14](#))
 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](#))
 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)
	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)
	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)
	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),
	Workshop on Self-Adaptation for Robustness and Cooperation in Holonic MultiAgent Systems and in MultiAgent Systems (SARC'08)
	Indian International Conference on Artificial Intelligence (IICAI'07)
	Rencontres des Jeunes Chercheurs en Intelligence Artificielle (RJCIA'07)
	European Workshop on Multi-Agent Systems (EUMAS'05)
	International Workshop on Engineering Societies in the Agents World (ESAW'04)
	European Workshop on Multi-Agent Systems (EUMAS'04)
Extra reviews	AAAI'12, WI-IAT'11, ICRA'10, AOSE'09, ISA'09, AAMAS'08, COIN@AAMAS'08, AOMP'08, AP-SLA'08, SBIA'08, RFIA'08, COIN@AAMAS'08, AAMAS'05
Journals	Artificial Intelligence (AIJ) [Editorial Board] Autonomous Agents and Multi-Agent Systems Journal (JAAMAS) Journal of Artificial Intelligence Research (JAIR) ACM Transactions on Autonomous and Adaptive Systems (TAAS) Revue Ouverte en Intelligence Artificielle (ROIA) Annals of Mathematics and Artificial Intelligence (AMAI) Computational Intelligence (COIN) Journal of Control Future Generation Computer Systems Journal (FGCS) International Journal of Agent-Oriented Software Engineering (IJAOSE) Revue d'Intelligence Artificielle (RIA) Simulation Modelling Practice and Theory Journal (SIMPAT) Web Intelligence An International Journal (WIC) International Journal of Production Research (IJPR)
Organization	Atelier Défense et IA at Conférence Nationale en Intelligence Artificielle (CNIA'24) Journée Francophone sur les Systèmes Multi-Agents (JFSMA'15) IEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'12) IEEE/WIC/ACM International Conferences on Web Intelligence and Intelligent Agent Technology (WI-IAT'11) 12th European Agent Systems Summer School (EASSS'10) The Multi-Agent Logics, Languages, and Organisations Federated Workshops (MALLOW'10) 10th international workshop Engineering Societies in the Agents' World (ESAW'09) Web Intelligence Summer School (WT'09) 9th international workshop Engineering Societies in the Agents' World (ESAW'08) Journée Francophone sur les Systèmes Multi-Agents (JFSMA'07) 5th international workshop Engineering Societies in the Agents' World (ESAW'04)

RESEARCH PROJECTS

Domains: Artificial intelligence (multiagent systems, reasoning, self-organisation), distributed problem solving and optimization, multiagent engineering and programming

Applications: Satellite constellations, Unmanned Air Traffic Management, Collective Robotics, Autonomous Vehicle Fleets, Ambient Intelligence, Internet-of-Things, Machine-to-Machine, Smart Grids, Multidisciplinary Design,

2022-2025	<p>DOMINO-E [Horizon Europe]</p> <p>Earth Observation Multi-mission Federation Layer, coordinated by Airbus Defence and Space</p> <ul style="list-style-type: none"> — <i>Funding:</i> 340k€ — <i>Consortium:</i> Airbus Defence and Space, Cap Gemini, ITTI, OIKOPLUS, ONERA, TILDE, VVA — <i>Role:</i> PI on Multi-Agent Resource Allocation
2020-2023	<p>LiChIE [BPI PSpC]</p> <p>LION Chaîne Image Elargie, coordinated by Airbus Defence and Space</p>
2020	<p>HyperAgent [France-Switzerland ANR]</p> <p>The HyperAgents project aims to enable the deployment of world-wide hybrid communities of people and autonomous agents on the Web.</p> <ul style="list-style-type: none"> — <i>Funding:</i> 239k€ — <i>Consortium:</i> Mines Saint-Etienne, INRIA, University of St Gallen — <i>Role:</i> expertise in Distributed AI and Multiagent Systems
2016-2019	<p>Collectiveware [Spanish Ministerio de Economía y Competitividad]</p> <p>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.</p> <ul style="list-style-type: none"> — <i>Collaborator and funder:</i> IIIA-CSIC
2014-2017	<p>ETHICAA [French ANR]</p> <p>The objectives of the eThicAa project is twofold: (i) definition of what should be a moral autonomous agent and a system of moral autonomous agents, and (ii) definition and resolution of ethical conflicts that could occur 1) inside one moral agent, 2) between one moral agent and the (moral) rules of the system it belongs to, 3) between one moral agent and a human operator or user, 4) between several artificial (moral) agents including or not human agents. Ethical conflicts are characterized by the fact that there is no “good” way to solve them. Nevertheless when a decision must be made it should be an informed decision based on an assessment of the arguments and values at stake. When several agents are involved this may result in one agent taking over the (decision or action) authority from the others.</p> <ul style="list-style-type: none"> — <i>Funding:</i> 244 561 € — <i>Consortium:</i> GREYC, Onera, LIP6, Télécom Ecole de Management, Ardans — <i>Model and implementation of collective ethical mechanisms</i> — https://ethicaa.greyc.fr
2013-2015	<p>Smart Energy Aware Systems (SEAS) [European ITEA2]</p> <p>The objective of the SEAS project is to enable interoperability of systems producing energy, ICT and automation systems in consumption sites. It also aims to introduce solutions based on dynamic technologies to control and track the estimated energy consumption. A second goal is to explore business models and solutions that allow energy market players to integrate microgrid networks and reactive customers, in particular intelligent decentralized systems (application ambient intelligence and smart cities).</p> <ul style="list-style-type: none"> — <i>Funding:</i> 89 493 € — <i>Cooperation between 6 countries (Finland, France, Portugal, Romania, Spain, Turkey)</i> — <i>Ontology for Smart Grids ; privacy in Smart Grids ; automatic negotiation</i> — http://www.itea2.org/project/index/view?project=10156

2010-2012	Multi-Agent Oriented Programming (MAOP) (CMIRA-RRA funded project) The objective of the project "Multi-Agent Oriented Programming" Project funded by the Région Rhône Alpes CMIRA 2010, is to work on Multi-Agent Oriented Programming as a paradigm for building complex software systems, in particular smart/intelligent decentralized systems. <ul style="list-style-type: none"> — <i>Supervision of a Master Student from "Politehnica" University of Bucharest (ERASMUS)</i> — <i>Cooperation with DEIS, Alma Mater Studiorum Universita di Bologna</i> — <i>Ambient Intelligence scenario description and prototype</i> — http://iscod.emse.fr/maop/
2009-2013	ID4CS (ANR-funded French national project) ID4CS is an ANR (French national research agency) funded project having the ambition to propose a modeling and simulation environment for designing complex systems such as aircrafts. <ul style="list-style-type: none"> — <i>Co-supervision of PhD student with University of Florida (multi-disciplinary optimization)</i> — <i>Cooperation with IRIT, Airbus, IMT, ICA, Upetec</i> — <i>Coordinator of the agent modeling work package</i> — http://www.irit.fr/id4cs
2008-2012	Web Intelligence (ISLE Cluster-RRA funded project) The overall objective is to consolidate and structure the scientific community in Rhône-Alpes and synergy of cooperation on the topic of Web Intelligence. <ul style="list-style-type: none"> — <i>Participation to the "Future Web" work package</i> — <i>Organisation and demo chair of WI-IAT 2011</i> — http://www.web-intelligence-rhone-alpes.org/
2001-2004	ADELFE (RNTL-funded French national project) The aim of the ADELFE toolkit is to guide you during the development of adaptive multi-agent systems (AMAS). ADELFE is now a known agent-oriented methodology and has been published in two state-of-the-art books on agent-oriented software engineering. <ul style="list-style-type: none"> — <i>ADELFE is one of the most renown agent-oriented methodology</i> — <i>Development of AdelfeToolkit to help designers to follow the ADELFE process</i> — http://www.irit.fr/ADELFE/

CONTRACTS

2010-2013	Orange Labs <ul style="list-style-type: none"> — <i>Funding: 24000€</i> — <i>Contract within the SensCity FUI project</i>
2015-2018	Orange Labs <ul style="list-style-type: none"> — <i>Funding: 30000€</i> — <i>Contract within the Open Home Infrastructure project</i>
2016	Renault Innovations <ul style="list-style-type: none"> — <i>Funding: 30000€</i> — <i>Contract to develop taxi swarms</i>

COOPERATIONS

National	Université de Toulouse (IRIT, ICA, IMT), Université de Lille (LIFL), ENGIE, ONERA, Orange Labs, Upetec, Airbus, SNECMA
International	University of Florida (US), Universita di Bologna (IT), "Politehnica" University of Bucharest (RO), Federal University of Santa Catarina (BR), Artificial Intelligence Research Institute IIIA-CSIC (ES)

SUPERVISION

PhDs	Thibault ROUX (PhD ONERA, 2024-2027): " <i>Reinforcement Learning under the Risk of Ruin</i> ", supervised by F.S. Perotto [50%] and G. Picard [50%]
	Victor GUILLET (PhD DGA-ONERA, 2024-2027): " <i>Distributed Decision Architecture for Multi-Robot Systems and Interactions</i> ", supervised by C. Lesire [50%] and G. Picard [50%]
	Romain BARRAULT (PhD CNES-ONERA, 2023-2026): " <i>Optimisation and Machine Learning for Earth observation with weather uncertainties</i> ", supervised by G. Picard [50%] and C. Pralet [50%]
	Alaa DAOUD (PhD EMSE, 2018-2022): " <i>Decentralized On-Demand Resource Allocation for Autonomous Vehicle Fleets</i> ", supervised by G. Picard [33%], F. Balbo [33%] and P. Gianessi [33%]
	Pierre RUST (PhD Orange Labs, 2015-2018): " <i>Spontaneous coordination of connected objects in the Internet of Things</i> ", supervised by G. Picard [50%] and F. Ramparany [50%]
	Syed GILLANI (PhD UJM, 2013-2016): " <i>Context-aware negotiation in a distributed environment of independent power prosumers</i> ", supervised by Prof. F. Laforest [50%], G. Picard [50%]
	Alexandru SORICI (Joint PhD UPB-EMSE, 2011-2015): " <i>Multi-Agent Context Management for Support of Ambient Computing Applications</i> ", supervised by Prof. A. Florea (UPB) [25%], Prof. O. Boissier [25%], G. Picard [50%]
	Camille PERSSON (PhD ANRT CIFRE Orange Labs/EMSE, 2009-2014): " <i>Agile governance in M2M networks</i> ", defended on 31 october 2014, supervised by Prof. O. Boissier [25%], G. Picard [45%], F. Ramparany [30%]
	Reda YAICH (PhD EMSE, 2009-2013): " <i>Adaptation and evolution of trust policies within virtual communities</i> ", defended on 29 october 2013, supervised by Prof. O. Boissier [25%], P. Jaillon [30%], G. Picard [45%]
	Diane VILLANUEVA (Joint PhD UF-EMSE, 2010-2013): " <i>Uncertainty propagation in multi-agent and multi-disciplinary optimisation</i> ", defended on 13 may 2013, supervised by DR CNRS R. Le Riche [33%], Prof. R. Haftka (UF) [33%], G. Picard [33%]
	Alexis ROBBES (ONERA, 2023-2024): " <i>Algorithmes de partages de constellation de satellites</i> "
Post-docs	Sara MAQROT (ONERA, 2021-2022): " <i>Algorithmes de partages équitables de constellation de satellites</i> "
	Jeremy RIVIÈRE (Mines Saint-Etienne, 2012-2013): " <i>Algorithms for finding local optima of expensive functions</i> "
Masters	Victor GUILLET (MSc Aerospace Control and Operations, TU Delft, 2023): " <i>Consensus-Based Approaches for Hybrid Task Assignment with Bid Intercessions</i> "
	Romain BARRAULT (Master Recherche Opérationnelle, ENSTA, 2023): " <i>Méthodes de résolution de problèmes de tournées multi-véhicules avec fenêtres de temps et coûts dépendants du temps pour la gestion de constellations de satellites</i> "
	Thomas SESMAT (INSA Toulouse): " <i>Réseaux neuroflous à poids mixtes</i> "
	Jihanne EL HAOUARI (Master Recherche Opérationnelle, ENAC, 2022): " <i>Earth Observation Satellite scheduling under weather uncertainties</i> "
	Vincent COUSIN (Master DC Toulouse, 2020): " <i>QualAS: eco-friendly Quality of Life in Ambient Sociotechnical Systems</i> "
	Lucas CERQUEIRA MARTINS (Master EMSE/UJM, 2012): " <i>Decentralized stable matching in mixed communities</i> "
	Alexandru SORICI (Master Universitatea Politehnica Bucuresti, EURAMUS, 2011): " <i>Dynamic, reactive and pro-active context information aggregation in an AmI environment</i> "
	Mustapha BILAL (Master UTT, Orange Labs, 2011): " <i>Multi-agent governance model for M2M networks: Application to a smart parking management system</i> "
	Santiago VILLARREAL (Master EMSE/UJM, 2010): " <i>Distributed constraint-based Optimisation and Social Choice</i> "
	Gaël CLAIR (Master EMSE/UJM, 2008): " <i>Self-organisation for manufacturing control based on multi-agent systems</i> "
	Elsy KADDOUM (Master IRIT/UPS, 2008): " <i>Self-regulation for manufacturing control using self-organising MAS</i> "
	Florian CORNET (Master IRIT/UPS, 2006): " <i>Study of a frequency assignment problem using adaptive multi-agent systems</i> "

PhD jurors

- Ellie BEAUPREZ**, "*Système multi-agents adaptatif pour l'équilibrage de charge centré utilisateur*", Université de Lille, France (08/07/24) [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 (20/06/24) [Reviewer]
- Valentin POSTAT**, "*Maillage hexaédrique structuré par blocs à l'aide de systèmes multi-agents avec apprentissage par renforcement*", Université Paris-Saclay, France (24/01/24) [Reviewer]
- Parham SHAMS**, "*Procedures based on Exchanges and new Relaxations of Envy-Freeness in Fair Division of Indivisible Goods*", Sorbonne Université, France (21/12/23) [Reviewer]
- Sharyal ZAFAR**, "*Optimized management of an active distribution network using AMAS combined with the RL bandit method*", Sorbonne Université, France (15/12/23) [Reviewer]
- Jamy CHAHAL**, "*Multi-drone patrol and observation of mobile targets*", Sorbonne Université, France (30/11/23) [Reviewer]
- Marc VINCENT**, "*Reinforcement Learning for Multi-Function Radar Resource Management*", Sorbonne Université, France (09/09/23)
- 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 (06/06/23) [Reviewer]
- Paul BREUGNOT**, "*Distribution and synchronisation of Multi-Agent Systems*", Université Bourgogne Franche-Comté, France (16/03/23) [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 (17/01/22)
- Coen VAN LEEUWEN**, "*Self-Organizing Multi-agent systems*", Delft Technical University, Netherlands (08/02/21) [Reviewer]
- Thadeu TUCCI**, "*Distributed algorithms for programmable matter : target shape description and self-assembly planning*", Université Bourgogne Franche-Comté, France (12/11/18)
- Francisco CRUZ**, "*Enhancing Performance on Combinatorial Optimization Algorithms*", Universitat Autònoma de Barcelona, Spain (16/10/18) [Reviewer]
- Maxime VELAY**, "*Distributed optimization methods for the management of the security of interconnected power systems*", Université Grenoble Alpes, France (25/09/18) [Reviewer]
- Julien SAVAUX**, "*Privacy in Distributed Constrained Problems for Utility-based Agents*", Université de Valenciennes et du Hainaut-Cambrésis, France (25/10/17) [Reviewer]
- Romaric BREIL**, "*Multiagent system for air traffic self-structuring*", Université de Toulouse, France (03/10/17) [Reviewer]
- Arcady RANTRUA**, "*Massive simulation of virtual world by means of adaptative multi-agent system*", Université de Toulouse, France (03/02/17) [Reviewer]
- Anatasia DAMAMME**, "*A multiagent approach for resource sharing problems*", Université Paris 6, France (12/12/16) [Reviewer]
- Filippo BISTAFFA**, "*Constraint Optimisation Techniques for Real-World Applications*", Università degli Studi di Verona, Italy (22/04/16) [Reviewer]
- Syed GILLANI**, "*Semantically-enabled stream processing and complex event processing over RDF graph streams*", Université de Lyon, France (04/10/16)
- Alexandru SORICI**, "*Multi-Agent Based Context Management Middleware In Support of Ambient Intelligence Applications*", University Politehnica of Bucharest and Ecole Nationale Supérieure des Mines de Saint-Etienne, Romania/France (11/09/15)
- Sergio ESPARCIA GARCÍA**, "*Integrating driving forces into the development of Adaptive Virtual Organizations*", Universitat Politècnica de València, Spain (24/02/15)
- 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 (31/10/14)
- Luc PONS**, "*Self-tuning of game scenarios through self-adaptative multi-agent systems*", Université de Toulouse, France (07/07/14)
- Reda YAICH**, "*Adaptiveness and Social-Compliance in Trust Management - A Multi-Agent Based approach*", Ecole Nationale Supérieure des Mines de Saint-Etienne, France (29/10/13)

- Tom JORQUERA**, "An adaptive multi-agent system for self-organizing continuous optimization", Université de Toulouse, France (22/10/13)
- 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 (13/05/13)
- Sylvain ROUGEMAILLE**, "Ingénierie des systèmes multi-agents adaptatifs dirigée par les modèles", Université de Toulouse, France (27/10/08)

PUBLICATIONS

Chapters

- GUESSOM, Zahia, MANDIAU, René, MATHIEU, Philippe, BOISSIER, Olivier, GLIZE, Pierre, HAMRI, Amine, PESTY, Sylvie, PICARD, Gauthier, SANSONNET, Jean-Paul, TESSIER, Catherine, and TRANVOUEZ, Erwan (2012). "Systèmes multi-agents et Simulation". In: *Information, Interaction, Intelligence : le point sur le i[3]*. Cépaduès Editions, pp. 76–120. URL: <https://hal-amu.archives-ouvertes.fr/hal-01488019>.
- GLIZE, Pierre and PICARD, Gauthier (2011). "Self-Organisation in Constraint Problem Solving". In: *Self-organizing Software: From Natural to Artificial Adaptation*. Ed. by G. SERUGENDO, M.-P. GLEIZES, and A. KARAGEORGOS. Natural Computing Series. Springer. Chap. 14, pp. 347–377. ISBN: 978-3-642-17348-6. DOI: [10.1007/978-3-642-17348-6_14](https://doi.org/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]
- 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. Chap. 2, pp. 45–76. URL: <http://www.lavoisier.fr/livre/notice.asp?ouvrage=2138883>. [Chapter on invitation – 1 review phase]
- BERNON, Carole, CAMPS, Valérie, GLEIZES, Marie-Pierre, and PICARD, Gauthier (2005). "Engineering Self-Adaptive Multi-Agent Systems: the ADELFE Methodology". In: *Agent-Oriented Methodologies*. Ed. by B. HENDERSON-SELLERS and P. GIORGINI. Idea Group Publishing. Chap. 7, pp. 172–202. DOI: [10.4018/978-1-59140-581-8.ch007](https://doi.org/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]
- PICARD, Gauthier and GLEIZES, Marie-Pierre (2004b). "The ADELFE Methodology – Designing Adaptive Cooperative Multi-Agent Systems". In: *Methodologies and Software Engineering for Agent Systems*. Ed. by F. BERGENTI, M.-P. GLEIZES, and F. ZAMBONELLI. Vol. 11. Multiagent Systems, Artificial Societies, And Simulated Organizations. Kluwer Publishing. Chap. 8, pp. 157–176. ISBN: 1-4020-8057-3. DOI: [10.1007/1-4020-8058-1_11](https://doi.org/10.1007/1-4020-8058-1_11). URL: <http://www.springerlink.com/content/ku3714781x30q625/>. [Chapter on invitation – 2 review phases]

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- PICARD, Gauthier, SABOURET, Nicolas, and SIMONIN, Olivier, eds. (2022b). *Revue Ouverte d'Intelligence Artificielle*. Vol. 3. 5-6. Cellule MathDoc/CEDRAM. DOI: [10.5802/roia.37en](https://doi.org/10.5802/roia.37en).
- PICARD, Gauthier, LANG, Christophe, and MARILLEAU, Nicolas, eds. (2018b). *Journées Francophones sur les Systèmes Multi-Agents (JFSMA'18) - Distribution et décentralisation*. Cépaduès, p. 250.
- VERCOUTER, Laurent and PICARD, Gauthier, eds. (2015). *Journées Francophones sur les Systèmes Multi-Agents (JFSMA'15) – Environnements socio-techniques*. Cépaduès.
- ALDEWERELD, Huib, DIGNUM, Virginia, and PICARD, Gauthier, eds. (2009). *Engineering Societies in the Agents World X - 10th International Workshop, ESAW 2009, Utrecht, The Netherlands, November 18-20, 2009*. Vol. 5881. Lecture Notes in Artificial Intelligence (LNAI). Springer, p. 258. ISBN: 978-3-642-10202-8. DOI: [10.1007/978-3-642-10203-5](https://doi.org/10.1007/978-3-642-10203-5). URL: <http://www.springer.com/computer/ai/book/978-3-642-10202-8>.
- ARTIKIS, Alexander, PICARD, Gauthier, and VERCOUTER, Laurent, eds. (2008). *Engineering Societies in the Agents World IX - 9th International Workshop, ESAW 2008, Saint-Etienne, France, September 24-26, 2008, Revised Selected Papers*. Vol. 5485. Lecture Notes in Artificial Intelligence (LNAI). Springer, p. 281. ISBN: 978-3-642-02561-7. DOI: [10.1007/978-3-642-02562-4](https://doi.org/10.1007/978-3-642-02562-4). URL: <http://www.springer.com/computer/ai/book/978-3-642-02561-7>.

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- DAOUD, Alaa, BALBO, Flavien, GIANESSI, Paolo, and PICARD, Gauthier (2023a). “AV-OLRA : Une modélisation générique pour le problème de l’allocation des ressources dans le domaine du transport à la demande”. In: *Revue Ouverte d’Intelligence Artificielle* 4.2, pp. 169–192. DOI: [10.5802/roia.61](https://doi.org/10.5802/roia.61). URL: <https://roia.centre-mersenne.org/item/10.5802/roia.61.pdf>.
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- ROUSSEL, Stéphanie, PICARD, Gauthier, PRALET, Cédric, and MAQROT, Sara (2023b). “Conflicting Bundle Allocation with Preferences in Weighted Directed Acyclic Graphs: Application to Orbit Slot Allocation Problems”. In: *Systems* 11.6. ISSN: 2079-8954. DOI: [10.3390/systems11060297](https://doi.org/10.3390/systems11060297). URL: <https://www.mdpi.com/2079-8954/11/6/297>. [Q2, IF=2.895]
- PICARD, Gauthier, SABOURET, Nicolas, and SIMONIN, Olivier (2022a). “Introduction (EN)”. In: *Revue Ouverte d’Intelligence Artificielle* 3.5-6, pp. 419–421. DOI: [10.5802/roia.37en](https://doi.org/10.5802/roia.37en).
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- PHAM TRAN ANH, Quang, SINGH, Kamal, BRADAI, Abbas, PICARD, Gauthier, and RIGGIO, Roberto (2019). “Adaptive Allocation Algorithms for Service Function Chains: Single and Multi-domain orchestration”. In: *IEEE Transactions on Network and Service Management* 16.1, pp. 98–112. DOI: [10.1109/TNSM.2018.2876623](https://doi.org/10.1109/TNSM.2018.2876623). URL: <https://ieeexplore.ieee.org/document/8494813>. [Q1, IF=3.286]
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- PHAM TRAN ANH, Quang, SINGH, Kamal, RODRÍGUEZ-AGUILAR, Juan Antonio, PICARD, Gauthier, PIAMRAT, Kandaraj, CERQUIDES, Jesús, and VIHO, César (2018). “AD3-GLAM: A Cooperative Distributed QoE-based Approach for SVC Video Streaming over Wireless Mesh Networks”. In: *Ad Hoc Networks* 80, pp. 1–15. DOI: [10.1016/j.adhoc.2018.07.005](https://doi.org/10.1016/j.adhoc.2018.07.005). URL: <https://www.sciencedirect.com/science/article/pii/S157087051830461X>. [Q1, IF=3.151]
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- SORICI, Alexandru, PICARD, Gauthier, BOISSIER, Olivier, ZIMMERMANN, Antoine, and FLOREA, Adina (2015d). "CON-SERT : Applying Semantic Web Technologies to Context Modeling in Ambient Intelligence". In: *Computers and Electrical Engineering - An International Journal* 44, pp. 280–306. DOI: [10.1016/j.compeleceng.2015.03.012](https://doi.org/10.1016/j.compeleceng.2015.03.012). URL: <http://www.sciencedirect.com/science/article/pii/S0045790615000993>. [Q1, IF=4.163]
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- FARGES, Jean-Loup, PEROTTO, Filippo, PICARD, Gauthier, PRALET, Cédric, DE LUSSY, Cyrille, GUERRA, Jonathan, PAVERO, Philippe, and PLANCHOU, Fabrice (2024a). "Going Beyond Mono-Mission Earth Observation: Using the Multi-Agent Paradigm to Federate Multiple Missions". In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS-24)*. IFAAMAS, 2674–2678. URL: <https://dl.acm.org/doi/10.5555/3635637.3663256>. [AR=23%] [Core A* – Pre-proceedings – 1 review phase]
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- DAOUD, Alaa, PICARD, Gauthier, ALQASIR, Hiba, GIANESSI, Paolo, and BALBO, Flavien (2023b). "Communication-wise Comparison of the Online Resource Allocation Methods in CAV Fleets". In: *International Conference on Ambient*

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