

# Curriculum Vitæ

**Gauthier PICARD**

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

**Applied Artificial Intelligence and Distributed Optimization**

Information processing and systems Department (DTIS)  
Requirements, Decision and Optimization Unit (EDO)  
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## EDUCATION

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

## WORK EXPERIENCE & POSITIONS

<b>from 2022</b>	<b>Directeur de Recherche / Senior Research Scientist</b> 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"><li>— Head of Artificial Intelligence Lab at ONERA (AILab)</li></ul>
<b>2020-2022</b>	<b>Research Scientist</b> 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
<b>from 2018</b>	<b>Full Professor</b> (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
<b>2018-2020</b>	<b>Visiting Researcher</b> at IRIT (Institute of Research in Computer Science of Toulouse), France
<b>2015-2020</b>	<b>Researcher</b> 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"><li>— <i>Research topics:</i> Artificial intelligence, Multi-agent systems, self-organization, constraint satisfaction and optimization, smart grids, intelligent transport systems</li><li>— <i>Research projects:</i> ANR ETHICAA, ITEA2 SEAS</li></ul>

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

## COURSE PROGRAM RESPOSABILITIES

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

2010-2014	<b>Information System Development</b> (Master 1) <a href="http://www.emse.fr/~picard/cours/2A/devsi/">http://www.emse.fr/~picard/cours/2A/devsi/</a>
2008-2014	<b>Object-oriented Programming</b> (Licence 3) <a href="http://www.emse.fr/~picard/cours/1A/java/">http://www.emse.fr/~picard/cours/1A/java/</a>
2008-2014	<b>ICT Project Management</b> (Master 1) <a href="http://www.emse.fr/~picard/cours/2A/svn-trac/">http://www.emse.fr/~picard/cours/2A/svn-trac/</a> <a href="http://www.emse.fr/~picard/cours/2A/gp/">http://www.emse.fr/~picard/cours/2A/gp/</a>
2011-2012	<b>Introduction to Artificial Intelligence</b> (Licence 3) <a href="http://www.emse.fr/~picard/cours/1A/IA/">http://www.emse.fr/~picard/cours/1A/IA/</a>

## TEACHING DUTIES

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

## PROFESSIONAL ACTIVITIES & SERVICES

<b>Publications</b>	<a href="http://gauthier-picard.info/#publications">http://gauthier-picard.info/#publications</a>
<b>Chair</b>	Program Chair (MASSpace'24, OptLearnMAS'21, JFSMA'18, SASO'16, AIPower'16, ESAW'09, ESAW'08), Tutorial Chair (PFIA'19), Workshop Chair (SASO'15), Doctoral Consortium Chair (SASO'14), Steering Committee (ESAW), Session Chair (IICAI'07, ROADEF'11), Demo Chair (WI-IAT'11), Organisation Chair (SASO'12)
<b>PC member</b>	AAMAS'24, ECAI'24, IJCAI'24, JFSMA'24, OptLearnMAS'24, PAAMS'24, OptLearnMAS'23, PAAMS'23, IJCAI'23, ECAI'23, JFSMA'23, AAMAS'23, AAMAS'23 Blue Sky Ideas, DARS'22, OptLearnMAS'22, ACSOS'22, EPIA'22, PAAMS'22, EXTRAAMAS'22, IJCAI-ECAI'22, The WebConf'22, AAMAS'22, AAAI'22, ACSOS'21, PAAMS'21, EXTRAAMAS'21, OptLearnMAS'21, AAMAS'21, IJCAI'21, AAAI'21, The WebConf'20, AAMAS'20, AAAI'20, ECAI'20, ICSOS'20, IJCAI'20, EPIA'19, PAAMS'19, EXTRAAMAS'19, CP'19, SASO'19, OPTMAS'19, JFSMA'19, AAMAS'19, AAAI'19, ICAART'19, IJCAI'19, AAMAS'18, AAAI'18, ICAART'18, WWW'18 Demo Track, SmartIoT@AAAI'18, AISGSB@AAAI'18, IJCAI-ECAI'18, ICCS'18, CP'18, OPTMAS'18, IJCAI'17, OPTMAS'17, SASO'17, JFSMA'17, PRIMA'17, SASO'ST'17, MAS&'16, IBERAMIA'16, OPTMAS'16, AAMAS'15, ISMIS'15, JFSMA'15, MAS&'15, SASO'15, AHPC'14, AMSTA'14, AAMAS'14, MAS&'14, ICRA'13, IJCAI'13, JFSMA'13, JFSMA'12, SASO'12, AOSE'12, MAS&'12, PAAMS'12, AOSE'11, BADS'11, DETC'11, IICAI'11, SASO'11, AAMAS'10, BADS'10, AOSE'10, SASO'10, WIVE'10, BADS'09, SARC'09, IICAI'09, IAMA'09, SASO'09 (posters), SARC'08, IICAI'07, RJCIA'07, EUMAS'05, ESAW'04, EUMAS'04
<b>Reviewer</b>	Journal of Artificial Intelligence Research (JAIR), Annals of Mathematics and Artificial Intelligence (AMAI), Computational Intelligence (COIN), Autonomous Agents and Multi-Agent Systems Journal (JAAMAS), Journal of Control, Future Generation Computer Systems Journal (FGCS), International Journal of Agent-Oriented Software Engineering (IJAASE), ACM Transactions on Autonomous and Adaptive Systems (TAAS), Revue d'Intelligence Artificielle (RIA), Simulation Modelling Practice and Theory Journal (SIMPAT), Web Intelligence An International Journal (WIC), International Journal of Production Research (IJPR), COIN@AAMAS'08, AAMAS'05, AAMAS'08, COIN@AAMAS'08, AOMP'08, APSLA'08, SBIA'08, RFIA'08, AOSE'09, ISA'09, ICRA'10, WI-IAT'11, AAAI'12
<b>Organization</b>	JFSMA'15, SASO'12, WI-IAT'11, EASSS'10, MALLOW'10, WI'09 Web Intelligence Summer School, ESAW'09, ESAW'08, JFSMA'07, 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,

<b>2022-2025</b>	<b>DOMINO-E</b> [Horizon Europe] Earth Observation Multi-mission Federation Layer, coordinated by Airbus Defence and Space — <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
<b>2020-2023</b>	<b>LiChIE</b> [BPI PSpC] LION Chaîne Image Elargie, coordinated by Airbus Defence and Space
<b>2020</b>	<b>HyperAgent</b> [France-Switzerland ANR] The HyperAgents project aims to enable the deployment of world-wide hybrid communities of people and autonomous agents on the Web. — <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

<b>2016-2019</b>	<p><b>Collectiveware</b> [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"> <li>— <i>Collaborator and funder: IIIA-CSIC</i></li> </ul>
<b>2014-2017</b>	<p><b>ETHICAA</b> [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"> <li>— <i>Funding: 244 561 €</i></li> <li>— <i>Consortium: GREYC, Onera, LIP6, Télécom Ecole de Management, Ardans</i></li> <li>— <i>Model and implementation of collective ethical mechanisms</i></li> <li>— <a href="https://ethicaa.greyc.fr">https://ethicaa.greyc.fr</a></li> </ul>
<b>2013-2015</b>	<p><b>Smart Energy Aware Systems (SEAS)</b> [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"> <li>— <i>Funding: 89 493 €</i></li> <li>— <i>Cooperation between 6 countries (Finland, France, Portugal, Romania, Spain, Turkey)</i></li> <li>— <i>Ontology for Smart Grids ; privacy in Smart Grids ; automatic negotiation</i></li> <li>— <a href="http://www.itea2.org/project/index/view?project=10156">http://www.itea2.org/project/index/view?project=10156</a></li> </ul>
<b>2010-2012</b>	<p><b>Multi-Agent Oriented Programming (MAOP)</b> (CMIRA-RRA funded project)</p> <p>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.</p> <ul style="list-style-type: none"> <li>— <i>Supervision of a Master Student from "Politehnica" University of Bucharest (ERASMUS)</i></li> <li>— <i>Cooperation with DEIS, Alma Mater Studiorum Universita di Bologna</i></li> <li>— <i>Ambient Intelligence scenario description and prototype</i></li> <li>— <a href="http://iscod.emse.fr/maop/">http://iscod.emse.fr/maop/</a></li> </ul>
<b>2009-2013</b>	<p><b>ID4CS</b> (ANR-funded French national project)</p> <p>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.</p> <ul style="list-style-type: none"> <li>— <i>Co-supervision of PhD student with University of Florida (multi-disciplinary optimization)</i></li> <li>— <i>Cooperation with IRIT, Airbus, IMT, ICA, Upetec</i></li> <li>— <i>Coordinator of the agent modeling work package</i></li> <li>— <a href="http://www.irit.fr/id4cs">http://www.irit.fr/id4cs</a></li> </ul>
<b>2008-2012</b>	<p><b>Web Intelligence</b> (ISLE Cluster-RRA funded project)</p> <p>The overall objective is to consolidate and structure the scientific community in Rhône-Alpes and synergy of cooperation on the topic of Web Intelligence.</p> <ul style="list-style-type: none"> <li>— <i>Participation to the "Future Web" work package</i></li> <li>— <i>Organisation and demo chair of WI-IAT 2011</i></li> <li>— <a href="http://www.web-intelligence-rhone-alpes.org/">http://www.web-intelligence-rhone-alpes.org/</a></li> </ul>



<b>2001-2004</b>	<b>ADELFE</b> (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"> <li>— <i>ADELFE is one of the most renown agent-oriented methodology</i></li> <li>— <i>Development of AdelfeToolkit to help designers to follow the ADELFE process</i></li> <li>— <a href="http://www.irit.fr/ADELFE/">http://www.irit.fr/ADELFE/</a></li> </ul>
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## CONTRACTS

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

## COOPERATIONS

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

## SUPERVISION

<b>PhDs</b>	<p><b>Thibault ROUX</b> (PhD ONERA, 2024-2027): "<i>Reinforcement Learning under the Risk of Ruin</i>", supervised by F.S. Perotto [50%] and G. Picard [50%]</p> <p><b>Victor GUILLET</b> (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%]</p> <p><b>Romain BARRAULT</b> (PhD CNES-ONERA, 2023-2026): "<i>Optimisation and Machine Learning for Earth observation with wearther uncertainties</i>", supervised by G. Picard [50%] and C. Pralet [50%]</p> <p><b>Alaa DAOUD</b> (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%]</p> <p><b>Pierre RUST</b> (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%]</p> <p><b>Syed GILLANI</b> (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%]</p> <p><b>Alexandru SORICI</b> (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%]</p> <p><b>Camille PERSSON</b> (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%]</p> <p><b>Reda YAICH</b> (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%]</p>
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	<b>Diane VILLANUEVA</b> (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%]
<b>Post-docs</b>	<b>Alexis ROBBES</b> (ONERA, 2023-2024): <i>"Algorithmes de partages de constellation de satellites"</i> <b>Sara MAQROT</b> (ONERA, 2021-2022): <i>"Algorithmes de partages équitables de constellation de satellites"</i> <b>Jeremy RIVIÈRE</b> (Mines Saint-Etienne, 2012-2013): <i>"Algorithms for finding local optima of expensive functions"</i>
<b>Masters</b>	<b>Victor GUILLET</b> (MSc Aerospace Control and Operations, TU Delft, 2023): <i>"Consensus-Based Approaches for Hybrid Task Assignment with Bid Intercessions"</i> <b>Romain BARRAULT</b> (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> <b>Thomas SESMAT</b> (INSA Toulouse): <i>"Réseaux neuroflous à poids mixtes"</i> <b>Jihanne EL HAOUARI</b> (Master Recherche Opérationnelle, ENAC, 2022): <i>"Earth Observation Satellite scheduling under weather uncertainties"</i> <b>Vincent COUSIN</b> (Master DC Toulouse, 2020): <i>"QualAS: eco-friendly Quality of Life in Ambient Sociotechnical Systems"</i> <b>Lucas CERQUEIRA MARTINS</b> (Master EMSE/UJM, 2012): <i>"Decentralized stable matching in mixed communities"</i> <b>Alexandru SORICI</b> (Master Universitatea Politehnica Bucuresti, EURAMUS, 2011): <i>"Dynamic, reactive and pro-active context information aggregation in an AmI environment"</i> <b>Mustapha BILAL</b> (Master UTT, Orange Labs, 2011): <i>"Multi-agent governance model for M2M networks: Application to a smart parking management system"</i> <b>Santiago VILLARREAL</b> (Master EMSE/UJM, 2010): <i>"Distributed constraint-based Optimisation and Social Choice"</i> <b>Gaël CLAIR</b> (Master EMSE/UJM, 2008): <i>"Self-organisation for manufacturing control based on multi-agent systems"</i> <b>Elsy KADDOUM</b> (Master IRIT/UPS, 2008): <i>"Self-regulation for manufacturing control using self-organising MAS"</i> <b>Florian CORNET</b> (Master IRIT/UPS, 2006): <i>"Study of a frequency assignment problem using adaptive multi-agent systems"</i>
<b>PhD jurors</b>	<b>Ellie BEAUPREZ</b> , <i>"Système multi-agents adaptatif pour l'équilibrage de charge centré utilisateur"</i> , Université de Lille, France (08/07/24) [Reviewer] <b>Santiago MONTOYA ZAPATA</b> , <i>"Optimisation de la performance globale de systèmes intelligents dans un environnement multi-agents"</i> , École nationale supérieure d'Arts et Métiers, Lille, France (20/06/24) [Reviewer] <b>Valentin POSTAT</b> , <i>"Maillage hexaédrique structuré par blocs à l'aide de systèmes multi-agents avec apprentissage par renforcement"</i> , Université Paris-Saclay, France (24/01/24) [Reviewer] <b>Parham SHAMS</b> , <i>"Procedures based on Exchanges and new Relaxations of Envy-Freeness in Fair Division of Indivisible Goods"</i> , Sorbonne Université, France (21/12/23) [Reviewer] <b>Sharyal ZAFAR</b> , <i>"Optimized management of an active distribution network using AMAS combined with the RL bandit method"</i> , Sorbonne Université, France (15/12/23) [Reviewer] <b>Jamy CHAHAL</b> , <i>"Multi-drone patrol and observation of mobile targets"</i> , Sorbonne Université, France (30/11/23) [Reviewer] <b>Marc VINCENT</b> , <i>"Reinforcement Learning for Multi-Function Radar Resource Management"</i> , Sorbonne Université, France (09/09/23) <b>Henrique DONANCIO NUNES RODRIGUES</b> , <i>"Deep reinforcement learning through imitation learning and curriculum learning : application to pump scheduling in water distribution networks"</i> , Université de Normandie, France (06/06/23) [Reviewer] <b>Paul BREUGNOT</b> , <i>"Distribution and synchronisation of Multi-Agent Systems"</i> , Université Bourgogne Franche-Comté, France (16/03/23) [Reviewer] <b>Alaa DAOUD</b> , <i>"Coordination in Connected Autonomous Vehicle fleets : A Multiagent Resource Allocation Approach to Online On-Demand Transport"</i> , 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 inter-connected 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>.
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## Editing

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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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### International conferences (peer-reviewed)

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