Gauthier PICARD   PhD, Hab. in Computer Science

Senior Research Scientist in Applied Artificial Intelligence

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Work Experience & Positions

from 2020	**Senior Research Scientist** (*Directeur de recherche*) 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** (in long-term leave of absence) at Computer Science and Intelligent Systems Department, Henri Fayol Institute of the École Nationale Supérieure des Mines de Saint-Etienne (EMSE), 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
2007-2018	**Associate Professor** (*Maître-Assistant des Ecoles des Mines*) at Computer Science and Intelligent Systems Department, Henri Fayol Institute of the École Nationale Supérieure des Mines de Saint-Etienne (EMSE), France
2006-2007	**Research and european relations engineer** at IRIT (Institute of Research in Computer Science of Toulouse), France
2004-2006	Attaché temporaire d'enseignement et recherche (equivalent to **assistant lecturer**) at the University Paul Sabatier of Toulouse, France
2001-2004	Moniteur et Allocataire de Recherche (**PhD student** national funding due to merit) at the University Paul Sabatier of Toulouse, France

Education

2014	**Habilitation à diriger les recherches (HDR) in Computer Science** (UJM, France)
	— Adaptive multiagent systems: engineering and problem solving
2004	**PhD in Computer Science** (IRIT, Toulouse III, France)
	— Multiagent-oriented methodology
2001	**DEA in Artificial Intelligence** (equivalent to MSc) (IRIT, Toulouse III, France)
	— with honours (Ranking: 2nd), obtain PhD thesis funding on merit
	— Master thesis on collective robotics
2000	**Maîtrise et Licence in Computer Science** (equivalent to BSc) (Toulouse III, France)
	— 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)

Research Themes

— Artificial intelligence
— Multi-agents systems, adaptive multi-agent systems
— Distributed optimization
— Resource allocation and coordination
— Self-organisation, as a mechanism to design artificial systems
— Application to collective robotics, space systems, UAVs

PROFESSIONAL ACTIVITIES & SERVICES

Publications	http://gauthier-picard.info/#publications
Supervision	7 supervised and defended PhDs, 3 supervised Postdocs, 8 supervised and defended Master students
Chair	Program Chair (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)
PC member	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, EXTRAA-MAS'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, EXTRAA-MAS'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&S'15, SASO'15, AHPC'14, AMSTA'14, AA-MAS'14, MAS&S'14, ICRA'13, IJCAI'13, JFSMA'13, JFSMA'12, SASO'12, AOSE'12, MAS&S'12, PAAMS'12, AOSE'11, BADS'11, IDETC'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
Reviewer	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 (IJAOSE), 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
Organization	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

MAIN PUBLICATIONS

PICARD, Gauthier (2023). "Multi-Agent Consensus-based Bundle Allocation for Multi-Mode Composite Tasks". In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS-23)*. in press. IFAA-MAS. [AR=26%] [Core A* – Pre-proceedings – 1 review phase]

— (2022a). "Auction-based and Distributed Optimization Approaches for Scheduling Observations in Satellite Constellations with Exclusive Orbit Portions". In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS-22)*. IFAAMAS, pp. 1056–1064. DOI: https://dl.acm.org/doi/10.5555/3535850.3535968. [AR=26%] [Core A* – Pre-proceedings – 1 review phase]

— (2022b). "Trajectory Coordination based on Distributed Constraint Optimization Techniques in Unmanned Air Traffic Management". In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS-22)*. IFAAMAS, pp. 1065–1073. DOI: https://dl.acm.org/doi/10.5555/3535850.3535969. [AR=26%] [Core A* – Pre-proceedings – 1 review phase]

RUST, Pierre, PICARD, Gauthier, and RAMPARANY, Fano (2022). "Resilient Distributed Constraint Reasoning to Autonomously Configure and Adapt IoT Environments". In: *ACM Transactions on Internet Technology* 22.4, pp. 1–31. DOI: http://dx.doi.org/10.1145/3507907. [Q1, IF=4.67]

PHAM TRAN ANH, Quang, SINGH, Kamal, BRADAI, Abbas, PICARD, Gauthier, and RIGGIO, Roberto (2019). "Adaptive Allocation Algorithms for Service Function Chains: Single and Multi-domain orchestration". In: *IEEE Transactions on Network and Service Management* 16.1, pp. 98–112. DOI: 10.1109/TNSM.2018.2876623. URL: https://ieeexplore.ieee.org/document/8494813. [Q1, IF=3.286]