

# Bibliography

Gauthier Picard

February 5, 2026

## Book Chapters

- GUESSOM, Z., R. MANDIAU, P. MATHIEU, O. BOISSIER, P. GLIZE, A. HAMRI, S. PESTY, G. PICARD, J.-P. SANSONNET, C. TESSIER, and E. TRANVOUEZ (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, P. and G. PICARD (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. 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>.
- BERNON, C., M.-P. GLEIZES, and G. PICARD (2009). “Méthodes orientées agent et multi-agent”. French. In: *Technologies des systèmes multi-agents et applications industrielles*. Ed. by A. EL FALLAH-SEGHRUCHNI and J.-P. BRIOT. Collection IC2. Hermès. Chap. 2, pp. 45–76. URL: <http://www.lavoisier.fr/livre/notice.asp?ouvrage=2138883>.
- BERNON, C., V. CAMPS, M.-P. GLEIZES, and G. PICARD (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>.
- PICARD, G. and M.-P. GLEIZES (2004). “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. 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/>.

## Book Editions

- PICARD, G., N. SABOURET, and O. SIMONIN, 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, G., C. LANG, and N. MARILLEAU, eds. (2018). *Journées Francophones sur les Systèmes Multi-Agents (JFSMA'18) - Distribution et décentralisation*. Cépaduès, p. 250.
- CABRI, G., G. PICARD, and N. SURI, eds. (2016). *10th IEEE International Conference on Self-Adaptive and Self-Organizing Systems, SASO 2016, Augsburg, Germany, September 12-16, 2016*. IEEE Computer Society. URL: <http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=7774239>.
- VERCOUTER, L. and G. PICARD, eds. (2015). *Journées Francophones sur les Systèmes Multi-Agents (JFSMA'15) – Environnements socio-techniques*. French. Cépaduès.
- ALDEWERELD, H., V. DIGNUM, and G. PICARD, 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. 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, A., G. PICARD, and L. VERCOUTER, 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. 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>.

## Journals

- DAOUD, A., F. BALBO, P. GIANESSI, and G. PICARD (2023). "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>.
- PICARD, G. (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, pp. 147–168. DOI: [10.5802/roia.60](https://doi.org/10.5802/roia.60). URL: <https://roia.centre-mersenne.org/item/10.5802/roia.60.pdf>.
- ROUSSEL, S., G. PICARD, C. PRALET, and S. MAQROT (2023). "Conflicting Bundle Allocation with Preferences in Weighted Directed Acyclic Graphs: Application to Orbit Slot Allocation Problems". In: *Systems* 11.6. DOI: [10.3390/systems11060297](https://doi.org/10.3390/systems11060297). URL: <https://www.mdpi.com/2079-8954/11/6/297>.
- PICARD, G., N. SABOURET, and O. SIMONIN (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).
- RUST, P., G. PICARD, and F. RAMPARANY (2022a). "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>.
- RUST, P., G. PICARD, and F. RAMPARANY (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, pp. 587–623. DOI: [10.5802/roia.44](https://doi.org/10.5802/roia.44). URL: <https://roia.centre-mersenne.org/item/10.5802/roia.44.pdf>.
- CERQUIDES, J., J. A. RODRÍGUEZ-AGUILAR, R. EMONET, and G. PICARD (2021). "Solving highly cyclic distributed optimization problems without busting the bank: a decimation-based approach". In: *Logic Journal of the IGPL* 29.1, pp. 72–95. DOI: [10.1093/jigpal/jzaa069](https://doi.org/10.1093/jigpal/jzaa069). URL: <https://doi.org/10.1093/jigpal/jzaa069>.
- DAOUD, A., F. BALBO, P. GIANESSI, and G. PICARD (Feb. 2021c). "ORNIInA: A Decentralized, Auction-based Multi-agent Coordination in ODT Systems". In: *AI Communications* 34.1, pp. 37–53. DOI: [10.3233/AIC-201579](https://doi.org/10.3233/AIC-201579). URL: <https://content.iospress.com/articles/ai-communications/aic201579>.
- NAJJAR, A., Y. MUALLA, K. SINGH, G. PICARD, D. CALVARESI, A. MALHI, S. GALLAND, and K. FRÄMLING (2021). "One-to-Many Negotiation QoE Management Mechanism for End-user Satisfaction". In: *IEEE Access* 9, pp. 59231–59243. DOI: [10.1109/ACCESS.2021.3071646](https://doi.org/10.1109/ACCESS.2021.3071646).
- GILLANI, S., A. ZIMMERMANN, G. PICARD, and F. LAFOREST (2019). "A Query Language for Semantic Complex Event Processing: Syntax, Semantics and Implementation". In: *Semantic Web Journal* 10.1, pp. 53–93. DOI: [10.3233/SW-180313](https://doi.org/10.3233/SW-180313).
- PHAM TRAN ANH, Q., K. SINGH, A. BRADAI, G. PICARD, and R. RIGGIO (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>.
- NAJJAR, A., G. PICARD, and O. BOISSIER (2018). "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, pp. 603–625. DOI: [10.3166/ria.32.603-625](https://doi.org/10.3166/ria.32.603-625).
- PHAM TRAN ANH, Q., K. SINGH, J. A. RODRÍGUEZ-AGUILAR, G. PICARD, K. PIAMRAT, J. CERQUIDES, and C. VIHO (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>.
- PICARD, G., F. BALBO, and O. BOISSIER (2018). "Approches multiagents pour l'allocation de courses à une flotte de taxis autonomes". In: *Revue d'Intelligence Artificielle* 32.2, pp. 223–247. DOI: [10.3166/ria.32.223-247](https://doi.org/10.3166/ria.32.223-247).
- CABRI, G., G. PICARD, and N. SURİ (2017). "SASO 2016: Selected, Revised, and Extended Best Papers". In: *ACM Transactions on Autonomous and Adaptive Systems (TAAS)* 12.3, pp. 1–3. DOI: [10.1145/3127332](https://doi.org/10.1145/3127332).
- YAICH, R., O. BOISSIER, G. PICARD, and P. JAILLON (2017). "Impact of Social Influence on Trust Management within Communities of Agents". In: *Web Intelligence, An International Journal* 15.3, pp. 251–268. DOI: [10.3233/WEB-170361](https://doi.org/10.3233/WEB-170361).
- GALLAND, S., F. BALBO, N. GAUD, S. RODRÍGUEZ, G. PICARD, and O. BOISSIER (2016). "Environnement multi-dimensionnel pour contextualiser les interactions des agents dans le cadre de la modélisation du trafic

- routier urbain”. French. In: *Revue d’Intelligence Artificielle* 30.1-2, pp. 81–108. DOI: [10.3166/RIA.30.81-108](https://doi.org/10.3166/RIA.30.81-108).
- SORICI, A., G. PICARD, O. BOISSIER, A. ZIMMERMANN, and A. FLOREA (2015). “CONCERT : 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>.
- YAICH, R., O. BOISSIER, G. PICARD, and P. JAILLON (2013). “Adaptiveness and Social-Compliance in Trust Management within Virtual Communities”. In: *Web Intelligence and Agent Systems (WIAS)* 11.4, pp. 315–338. DOI: [10.3233/WIA-130278](https://doi.org/10.3233/WIA-130278). URL: <http://iospress.metapress.com/content/q2659685221703r7/?issue=4&genre=article&spage=315&issn=1570-1263&volume=11>.
- EVERAERE, P., M. MORGE, and G. PICARD (2012). “Casanova : un comportement d’agent pour l’équité des mariages préservant la privacité”. In: *Revue d’Intelligence Artificielle* 26.5, pp. 471–494. DOI: [10.3166/ria.26.471-494](https://doi.org/10.3166/ria.26.471-494). URL: <http://ria.revuesonline.com/article.jsp?articleId=17808>.
- GLEIZES, M.-P., C. BERNON, F. MIGEON, and G. PICARD (2008). “Méthodes de développement de systèmes multi-agents”. French. In: *Génie Logiciel, GL & IS* 86, pp. 2–7.
- OTTENS, K., G. PICARD, and V. CAMPS (2006). “Transformation de modèles d’agents dans la méthode ADELFE : Des stéréotypes de conception à l’implémentation”. French. In: *Revue Technique et Science Informatique – L’objet* 12.4, pp. 43–72. DOI: [10.3166/objet.12.4.43-72](https://doi.org/10.3166/objet.12.4.43-72). URL: <http://objet.e-revues.com/article.jsp?articleId=9174>.
- PICARD, G. and P. GLIZE (2006). “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, pp. 253–265. DOI: [10.3233/MGS-2006-2304](https://doi.org/10.3233/MGS-2006-2304). URL: <http://content.iospress.com/articles/multiagent-and-grid-systems/mgs00042>.
- PICARD, G., C. BERNON, V. CAMPS, and M.-P. GLEIZES (Nov. 2003). “ADELFE : Atelier de développement de logiciels à fonctionnalité émergente”. French. In: *Revue Technique et Science Informatique* 22.4. Ed. by J. BRIOT and K. GHEDIRA, pp. 387–391. URL: <http://tsi.revuesonline.com/article.jsp?articleId=4789>.
- PICARD, G. and M.-P. GLEIZES (Nov. 2003). “Outils pour la réalisation de systèmes multi-agents adaptatifs dans le cadre de la méthode ADELFE”. French. In: *Revue Technique et Science Informatique* 22.4. Ed. by J. BRIOT and K. GHEDIRA, pp. 249–253. URL: <http://tsi.revuesonline.com/article.jsp?articleId=4777>.

## International Conferences and Workshops

- PICARD, G., W. YEOH, and R. ZIVAN (2026). “Agentic LLMs and Distributed Constraint Reasoning: A Symbiotic Perspective for Neurosymbolic Multi-Agent Systems”. In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS-26)*.
- ROUX, T., F. PEROTTO, J.-L. FARGES, and G. PICARD (2026). “Managing Critical Resources While Learning New Skills: A Transfer Approach for Hierarchical RL”. In: *International Conference on Agents and Artificial Intelligence (ICAART-26)*.
- SUMIC, A., T. VIDAL, G. PICARD, F. MARIS, R. POSENATO, and C. COMBI (2026). “Centralized and Distributed approaches for restoring the Weak Controllability of Multi-Agent Interdependent STNUs”. In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS-26)*.
- BARRAULT, R., C. PRALET, G. PICARD, and E. SAWYER (2025b). “Hybridizing machine learning and optimization for planning satellite observations”. In: *International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR-25)*.
- BARRAULT, R., C. PRALET, G. PICARD, E. SAWYER, and A. CHAN-HON-TONG (2025). “Learning the Feasibility of Sets of Acquisition Tasks for Earth Observation Satellites”. In: *International Workshop on Planning and Scheduling for Space (IWPSS-25)*. URL: <https://drive.google.com/file/d/1-TV6F1FhqNgXZMzsJV4jUxqcoMS1lhKA/view?usp=sharing>.
- GUILLET, V., C. LESIRE, G. PICARD, and C. GRAND (2025a). “Extending Consensus-based Task Allocation Algorithms with Bid Intercession to Foster Mixed-Initiative”. In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS-25)*. IFAAMAS, pp. 932–940. URL: <https://www.ifaamas.org/Proceedings/aamas2025/pdfs/p932.pdf>.

- PRALET, C., G. PICARD, C. DE LUSSY, and J. GUERRA (2025). “Mesh Dispatching for Area Coverage using Several Earth Observation Systems”. In: *International Workshop on Planning and Scheduling for Space (IWPSS-25)*. URL: [https://drive.google.com/file/d/1i7xA\\_bsB9gBkaCoi6uZ7LU1r36hUSU2K/view](https://drive.google.com/file/d/1i7xA_bsB9gBkaCoi6uZ7LU1r36hUSU2K/view).
- ROUX, T., F. STUDZINSKI PEROTTO, and G. PICARD (2025a). “Towards Scalable Collision Avoidance in Dense Airspaces with Deep Multi-Agent Reinforcement Learning”. In: *Workshop on Adaptive and Learning Agents (ALA-25) at International Conference on Autonomous Agents and Multiagent Systems (AAMAS-25)*. URL: [https://ala-workshop.github.io/papers/ALA2025\\_paper\\_12.pdf](https://ala-workshop.github.io/papers/ALA2025_paper_12.pdf).
- WILLOT, H., J.-L. FARGES, G. PICARD, and P. PAVERO (2025a). “Deterministic and Probabilistic Decision Models for GSaaS-based Satellite Communication Resource Management”. In: *International Workshop on Planning and Scheduling for Space (IWPSS-25)*. URL: <https://drive.google.com/file/d/18-NppnOCAXyehIrKmbFfTMQy4v0A-1IC/view?usp=sharing>.
- WILLOT, H., J.-L. FARGES, G. PICARD, and P. PAVERO (2025c). “Satellite Communication Resources Management in a Earth Observation Federation of Constellations”. In: *International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR-25)*.
- FARGES, J.-L., F. PEROTTO, G. PICARD, C. PRALET, C. DE LUSSY, J. GUERRA, P. PAVERO, and F. PLANCHOU (2024). “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%]
- GUILLET, V., C. GRAND, C. LESIRE, and G. PICARD (2024a). “Bid Intercession to Unlock Human Control in Decentralized Consensus-based Multi-Robot Task Allocation Algorithms”. In: *4th Workshop on Agents and Robots for reliable Engineered Autonomy (AREA-24)*. Ed. by A. FERRANDO and R. C. CARDOSO. Vol. 2230. Springer, pp. 99–114. DOI: [10.1007/978-3-031-73180-8\\_7](https://doi.org/10.1007/978-3-031-73180-8_7). URL: <https://link.springer.com/content/pdf/10.1007/978-3-031-73180-8.pdf>.
- HAMADI, Y. and G. PICARD (2024b). “Towards Socially-Acceptable Multi-Criteria Resolution of the 4D-Contracts Repair Problem”. In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS-24)*. IFAAMAS, 2297–2299. URL: <https://dl.acm.org/doi/10.5555/3635637.3663139>. [AR=23%]
- POURÉ, T., E. VAREILLES, S. ROUSSEL, and G. PICARD (2024). “Configuration of Heterogeneous Agent Fleet: a Preliminary Generic Model”. In: *ConfWS’24: 26th International Workshop on Configuration*. CEUR Workshop Proceedings.
- DAOUD, A., G. PICARD, H. ALQASIR, P. GIANESSI, and F. BALBO (2023). “Communication-wise Comparison of the Online Resource Allocation Methods in CAV Fleets”. In: *International Conference on Ambient Systems, Networks and Technologies (ANT-23)*. Vol. 220. Elsevier, pp. 299–306. DOI: [10.1016/j.procs.2023.03.039](https://doi.org/10.1016/j.procs.2023.03.039). [AR=31%]
- PICARD, G. (2023c). “Multi-Agent Consensus-based Bundle Allocation for Multi-Mode Composite Tasks”. In: *International Conference on Autonomous Agents and Multiagent Systems (AAMAS-23)*. IFAAMAS, pp. 504–512. DOI: [10.5555/3545946.3598677](https://doi.org/10.5555/3545946.3598677). URL: <https://dl.acm.org/doi/10.5555/3545946.3598677>. [AR=23%]
- VAREILLES, E., S. ROUSSEL, and G. PICARD (2023). “PERFECT: PERformant and Robust read-to-fly FLEet Configuration: from Robot to Mission Plan”. In: *ConfWS’23: 25th International Workshop on Configuration, Sep 6–7, 2023, Málaga, Spain*. Vol. 3509. CEUR Workshop Proceedings, pp. 104–107. URL: <https://ceur-ws.org/Vol-3509/paper14.pdf>.
- MAQROT, S., S. ROUSSEL, G. PICARD, and C. PRALET (2022a). “Bundle Allocation with Conflicting Preferences Represented as Weighted Directed Acyclic Graphs – Application to Orbit Slot Ownership”. In: *Advances in Practical Applications of Agents, Multi-Agent Systems, and Complex Systems Simulation, The PAAMS Collection*. Ed. by F. DIGNUM, P. MATHIEU, J. M. CORCHADO, and F. De la PRIETA. Vol. 13616. LNAI. Springer, pp. 280–293. DOI: [10.1007/978-3-031-18192-4\\_23](https://doi.org/10.1007/978-3-031-18192-4_23).
- MAQROT, S., S. ROUSSEL, G. PICARD, and C. PRALET (2022b). “Orbit Slot Allocation in Earth Observation Constellations”. In: *11th Conference on Prestigious Applications of Artificial Intelligence (PAIS’22), 25 July 2022, Vienna, Austria (co-located with IJCAI-ECAI 2022)*. Ed. by A. PASSERINI and T. SCHIEX. Vol. 351. Frontiers in Artificial Intelligence and Applications. IOS Press, pp. 3–16. DOI: [10.3233/FAIA220061](https://doi.org/10.3233/FAIA220061). URL: <https://ebooks.iospress.nl/volumearticle/60355>.
- PICARD, G. (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%]
- PICARD, G. (2022c). “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%]
- BIMONTE, S., A. BELHASSENA, C. CARIOU, J. LANERUTI, R. MOUSSA, G. CHALHOUB, R. WREMBEL, G. PICARD, L. BELLATRECHE, A. JOURNAUX, T. HEIRMAN, A. HASSAN, S. RIZZI, and J.-P. GEORGÉ (2021). “On Designing and Implementing Agro-ecology IoT Applications: Issues from Applied Research Projects”. In: *First International Workshop on Latest Advances in Enterprise Architectures in the IoT Era (EAIoT’2021)*.
- DAOUD, A., H. ALQASIR, Y. MUALLA, A. NAJJAR, G. PICARD, and F. BALBO (2021). “Towards Explainable Recommendations of Resource Allocation Mechanisms in On-Demand Transport Fleets”. In: *Explainable and Transparent AI and Multi-Agent Systems, Third International Workshop (EXTRAAMAS 2021)*. Vol. 12688. Lecture Notes on Artificial Intelligence (LNAI). Springer International Publishing, pp. 95–117. DOI: [10.1007/978-3-030-82017-6\\_7](https://doi.org/10.1007/978-3-030-82017-6_7).
- DAOUD, A., F. BALBO, P. GIANESSI, and G. PICARD (May 2021a). “A Generic Agent Model Towards Comparing Resource Allocation Approaches to On-demand Transport with Autonomous Vehicles”. In: *The 12th Workshop on Optimization and Learning in Multiagent Systems (OptLearnMAS-21)*. at AAMAS 2021 (virtual) London, United Kingdom. URL: <https://hal.archives-ouvertes.fr/hal-03201325>.
- DAOUD, A., F. BALBO, P. GIANESSI, and G. PICARD (2021b). “A Generic Multi-Agent Model for Resource Allocation Strategies in Online On-Demand Transport with Autonomous Vehicles”. In: *Proceedings of the 20th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2021)*. Ed. by U. ENDRIS, A. NOWÉ, F. DIGNUM, and A. LOMUSCIO. Extended abstract. International Foundation for Autonomous Agents and Multiagent Systems, pp. 1489–1491. DOI: <https://dl.acm.org/doi/10.5555/3463952.3464135>. URL: <https://dl.acm.org/doi/10.5555/3463952.3464135>. [AR=40%]
- PICARD, G. (2021a). “Auction-based and Distributed Optimization Approaches for Scheduling Observations in Satellite Constellations with Exclusive Orbit Portions”. In: *International Workshop on Planning and Scheduling for Space (IWPSS’21)*. arXiv: [2106.03548](https://arxiv.org/abs/2106.03548). URL: <https://arxiv.org/abs/2106.03548>.
- PICARD, G., C. CARON, J.-L. FARGES, J. GUERRA, C. PRALET, and S. ROUSSEL (2021a). “Autonomous Agents and Multiagent Systems Challenges in Earth Observation Satellite Constellations”. In: *Proceedings of the 20th International Conference on Autonomous Agents and MultiAgent Systems*. Ed. by U. ENDRIS, A. NOWÉ, F. DIGNUM, and A. LOMUSCIO. AAMAS ’21. Virtual Event, United Kingdom: International Foundation for Autonomous Agents and Multiagent Systems, 39–44. DOI: <https://dl.acm.org/doi/10.5555/3463952.3463961>. URL: <https://dl.acm.org/doi/10.5555/3463952.3463961>. [AR=28%]
- DAOUD, A., F. BALBO, P. GIANESSI, and G. PICARD (2020b). “Decentralized Insertion Heuristic with Runtime Optimization for On-demand Transport Scheduling”. In: *ATT2020 (11th International Workshop on Agents in Traffic and Transportation)*. Ed. by I. DUSPARIC, M. LUJAK, F. KLÜGL, and G. VIZZARI. CEUR Workshop Proceedings, pp. 9–15. URL: <https://sites.google.com/unimib.it/att2020/>.
- PICARD, G. and P. RUST (2020b). “Assessing Performances of Incomplete DCOP Solvers on HetNet User Association Problems”. In: *Declarative Problem Solving Workshop (DPSW@ECAI’20)*.
- RUST, P., G. PICARD, and F. RAMPARANY (2020). “Resilient Distributed Constraint Optimization in Physical Multi-Agent Systems”. In: *European Conference on Artificial Intelligence (ECAI)*. Vol. 325. Frontiers in Artificial Intelligence and Applications. IOS Press, pp. 195–202. DOI: [10.3233/FAIA200093](https://doi.org/10.3233/FAIA200093). URL: [http://ecai2020.eu/papers/108\\_paper.pdf](http://ecai2020.eu/papers/108_paper.pdf).
- RUST, P., G. PICARD, and F. RAMPARANY (2019a). “Installing Resilience in Distributed Constraint Optimization Operated by Physical Multi-Agent Systems”. In: *Autonomous Agents and Multiagent Systems (AAMAS)*. International Foundation for Autonomous Agents and Multiagent Systems, pp. 2177–2179. DOI: <https://dl.acm.org/doi/10.5555/3306127.3332049>. URL: <https://dl.acm.org/doi/10.5555/3306127.3332049>.
- RUST, P., G. PICARD, and F. RAMPARANY (2019b). “pyDCOP, a DCOP library for IoT and dynamic systems”. In: *International Workshop on Optimisation in Multi-Agent Systems (OptMAS@AAMAS 2019)*.
- CERQUIDES, J., R. EMONET, G. PICARD, and J. A. RODRÍGUEZ-AGUILAR (2018b). “DeciMaxSum: Using Decimation to Improve Max-Sum on Cyclic DCOPs”. In: *Artificial Intelligence Research and Development - Current*

*Challenges, New Trends and Applications, CCIA 2018, 21st International Conference of the Catalan Association for Artificial Intelligence, Alt Empordà, Catalonia, Spain, 8-10th October 2018*. Ed. by Z. FALOMIR, K. GIBERT, and E. PLAZA. Vol. 308. Frontiers in Artificial Intelligence and Applications. IOS Press, pp. 27–36. DOI: [10.3233/978-1-61499-918-8-27](https://doi.org/10.3233/978-1-61499-918-8-27).

- CERQUIDES, J., R. EMONET, G. PICARD, and J. A. RODRÍGUEZ-AGUILAR (2018c). “Improving Max-Sum through Decimation to Solve Loopy Distributed Constraint Optimization Problems”. In: *International Workshop on Optimisation in Multi-Agent Systems (OptMAS@AAMAS 2018)*. URL: [http://www-personal.umich.edu/~fioretto/cfp/OPTMAS18/papers/paper\\_1.pdf](http://www-personal.umich.edu/~fioretto/cfp/OPTMAS18/papers/paper_1.pdf).
- NAJJAR, A., Y. MUALLA, K. SINGH, and G. PICARD (2018). “One-to-Many Multi-agent Negotiation and Coordination Mechanisms to Manage User Satisfaction”. In: *International Workshop on Agent-based Complex Automated Negotiations (ACAN2018)*.
- RUST, P., G. PICARD, and F. RAMPARANY (2018b). “Self-Organized and Resilient Distribution of Decisions over Dynamic Multi-Agent Systems”. In: *International Workshop on Optimisation in Multi-Agent Systems (OptMAS@AAMAS 2018)*. URL: <http://gauthier-picard.info/publications/rust18optmas.pdf>.
- NAJJAR, A., O. BOISSIER, and G. PICARD (2017a). “An Adaptive One-to-many Negotiation to Improve The Service Acceptability of an Open SaaS Provider”. In: *International Workshop on Agent-based Complex Automated Negotiations (ACAN2017)*. URL: <http://www.itolab.nitech.ac.jp/ACAN2017/>.
- NAJJAR, A., O. BOISSIER, and G. PICARD (2017b). “AQUAMan: An Adaptive QoE-Aware Negotiation Mechanism for SaaS Elasticity Management”. In: *Proceedings of the 16th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2017)*. Ed. by S. DAS, E. DURFEE, K. LARSON, and M. WINIKOFF. International Foundation for Autonomous Agents and Multiagent Systems, pp. 1655–1657. URL: <http://dl.acm.org/citation.cfm?id=3091282.3091394>.
- NAJJAR, A., O. BOISSIER, and G. PICARD (2017c). “Elastic and Load-Spike Proof One-to-Many Negotiation to Improve the Service Acceptability of an Open SaaS Provider”. In: *Autonomous Agents and Multiagent Systems – AAMAS 2017 Workshops, Best Papers, Sao Paulo, Brazil, May 8-12, 2017, Revised Selected Papers*. Ed. by G. SUKTHANKAR and J. RODRIGUEZ-AGUILAR. Vol. 10642. LNAI. Extended Version. Springer, pp. 1–20. DOI: [10.1007/978-3-319-71682-4\\_1](https://doi.org/10.1007/978-3-319-71682-4_1).
- NAJJAR, A., Y. MUALLA, G. PICARD, and O. BOISSIER (2017). “Cost-aware User-centric Acceptability Rate Adaptation for SaaS Services Using Multi-agent Systems”. In: *IEEE/WIC/ACM International Conference on Web Intelligence (WI)*. ACM Press, pp. 331–339. DOI: [10.1145/3106426.3106485](https://doi.org/10.1145/3106426.3106485). URL: <http://webintelligence2017.com>. [AR=38.8%]
- RUST, P., G. PICARD, and F. RAMPARANY (2017d). “On the Deployment of Factor Graph Elements to Operate Max-Sum in Dynamic Ambient Environments”. In: *8th International Workshop on Optimisation in Multi-Agent Systems (OPTMAS 2017, in conjunction with AAMAS 2017)*. URL: <https://www.cs.nmsu.edu/~wyeoh/OPTMAS2017/>.
- RUST, P., G. PICARD, and F. RAMPARANY (2017c). “On the Deployment of Factor Graph Elements to Operate Max-Sum in Dynamic Ambient Environments”. In: *Autonomous Agents and Multiagent Systems – AAMAS 2017 Workshops, Best Papers, Sao Paulo, Brazil, May 8-12, 2017, Revised Selected Papers*. Ed. by G. SUKTHANKAR and J. RODRIGUEZ-AGUILAR. Vol. 10642. Lecture Notes in Artificial Intelligence (LNAI). Extended Version. Springer, pp. 116–137. DOI: [10.1007/978-3-319-71682-4\\_8](https://doi.org/10.1007/978-3-319-71682-4_8).
- GILLANI, S., G. PICARD, and F. LAFOREST (2016a). “Continuous Graph Pattern Matching over Knowledge Graph Streams”. In: *10th ACM International Conference on Distributed and Event-Based Systems (DEBS)*. ACM, pp. 214–225. DOI: [10.1145/2933267.2933306](https://doi.org/10.1145/2933267.2933306). [AR=19%]
- GILLANI, S., G. PICARD, and F. LAFOREST (2016b). “DIONYSUS: Towards Query-aware Distributed Processing of RDF Graph Streams”. In: *Fifth International Workshop on Querying Graph Structured Data (GraphQ’16) at EDBT/ICDT 2016 Joint Conference*. URL: <http://ceur-ws.org/Vol-1558/paper22.pdf>.
- GILLANI, S., G. PICARD, and F. LAFOREST (2016c). “SPECTRA: Continuous Query Processing for RDF Graph Streams Over Sliding Windows”. In: *International Conference on Scientific and Statistical Database Management (SSDBM’16)*. ACM. DOI: [10.1145/2949689.2949701](https://doi.org/10.1145/2949689.2949701). [AR=33%]
- RUST, P., G. PICARD, and F. RAMPARANY (2016b). “Using Message-passing DCOP Algorithms to Solve Energy-efficient Smart Environment Configuration Problems”. In: *Proceedings of the Twenty-Fifth International Joint Conference on Artificial Intelligence (IJCAI-16)*. Ed. by S. KAMBHAMPATI. AAAI Press, pp. 468–474. URL: <http://www.ijcai.org/Proceedings/2016/>. [AR=24%]

- BELLONI, A., A. BERGER, O. BOISSIER, G. BONNET, G. BOURGNE, P. CHARDEL, J. COTTON, N. EVREUX, J.-G. GANASCIA, P. JAILLON, B. MERMET, G. PICARD, B. REVER, G. SIMON, T. de SWARTE, C. TESSIER, F. VEXLER, R. VOYER, and A. ZIMMERMANN (2015). "Dealing With Ethical Conflicts In Autonomous Agents And Multi-Agent Systems". In: *Workshop on AI and Ethics at The Twenty-Ninth AAAI Conference on Artificial Intelligence (AAAI'15)*. [AR=40%]
- CERQUIDES, J., G. PICARD, and J. A. RODRÍGUEZ-AGUILAR (2015b). "Defining a Continuous Marketplace for the Trading and Distribution of Energy in the Smart Grid". In: *Second Workshop on Interfaces between Multiagent Systems, Machine Learning and Complex Systems*, pp. 37–48.
- CERQUIDES, J., G. PICARD, and J. A. RODRÍGUEZ-AGUILAR (2015c). "Defining and solving the energy allocation problem with continuous prosumers". In: *Artificial Intelligence Research and Development - Proceedings of the 18th International Conference of the Catalan Association of Artificial Intelligence (CCIA'15)*. Ed. by E. ARMENGOL, D. BOIXADER, and F. GRIMALDO. Vol. 277. Frontiers in Artificial Intelligence and Applications. Catalan Association for Artificial Intelligence. IOS Press, pp. 29–38. DOI: [10.3233/978-1-61499-578-4-29](https://doi.org/10.3233/978-1-61499-578-4-29). URL: <http://ebooks.iospress.nl/volumearticle/40914>.
- CERQUIDES, J., G. PICARD, and J. A. RODRÍGUEZ-AGUILAR (2015d). "Designing a marketplace for the trading and distribution of energy in the smart grid". In: *14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*. International Foundation for Autonomous Agents and Multiagent Systems, pp. 1285–1293. [AR=24.9%]
- GALLAND, S., F. BALBO, N. GAUD, S. RODRÍGUEZ, G. PICARD, and O. BOISSIER (2015a). "A multidimensional environment implementation for enhancing agent interactions". In: *14th International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*. International Foundation for Autonomous Agents and Multiagent Systems, pp. 1801–1802. URL: <https://www.ifaamas.org/Proceedings/aamas2015/>. [AR=46.8%]
- GALLAND, S., F. BALBO, N. GAUD, S. RODRÍGUEZ, G. PICARD, and O. BOISSIER (2015b). "Contextualize Agent Interactions by Combining Social and Physical Dimensions in the Environment". In: *13th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'15)*. Ed. by Y. DEMAZEAU and K. DECKER. Vol. 9086. Lecture Notes in Artificial Intelligence (LNAI). Springer, pp. 107–119. DOI: [10.1007/978-3-319-18944-4\\_9](https://doi.org/10.1007/978-3-319-18944-4_9). [AR=20.8%]
- GILLANI, S., A. KAMMOUN, J. SUBERCAZE, K. SINGH, G. PICARD, and F. LAFOREST (2015). "Top-K Queries in RDF Graph-based Stream Processing with Actors". In: *ACM International Conference on Distributed Event-Based Systems (DEBS)*. ACM, pp. 293–300. DOI: [10.1145/2675743.2772587](https://doi.org/10.1145/2675743.2772587). [AR=19%]
- PICARD, G., C. PERSSON, O. BOISSIER, and F. RAMPARANY (2015). "Multi-agent Self-organization and Reorganization to Adapt M2M Infrastructures". In: *Ninth IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'15)*. IEEE Computer Society, pp. 91–100. DOI: [10.1109/SASO.2015.17](https://doi.org/10.1109/SASO.2015.17). [AR=18.5%]
- SORICI, A., O. BOISSIER, G. PICARD, and A. FLOREA (2015a). "Multi-Agent based Context Provisioning Deployment in AmI Applications". In: *13th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS'15)*. Ed. by Y. DEMAZEAU and K. DECKER. Vol. 9086. Lecture Notes in Artificial Intelligence (LNAI). Springer. DOI: [10.1007/978-3-319-18944-4\\_19](https://doi.org/10.1007/978-3-319-18944-4_19). [AR=20.8%]
- SORICI, A., O. BOISSIER, G. PICARD, and A. FLOREA (2015b). "Policy-based Adaptation of Context Provisioning in AmI". In: *Ambient Intelligence - Software and Applications - 6th International Symposium on Ambient Intelligence (ISAmI'15)*. Ed. by A. MOHAMED, P. NOVAIS, A. PEREIRA, G. VILLARRUBIA GONZÁLEZ, and A. FERNÁNDEZ-CABALLERO. Vol. 376. Advances in Intelligent Systems and Computing. Springer International Publishing, pp. 33–43. DOI: [10.1007/978-3-319-19695-4\\_4](https://doi.org/10.1007/978-3-319-19695-4_4).
- SORICI, A., G. PICARD, and A. FLOREA (2015). "Multi-Agent Based Context Management in AmI Applications". In: *International Workshop on Agent Technology for Ambient Intelligence at the the 20th International Conference on Control Systems and Computer Science (CSCS)*. IEEE CPS, pp. 727–734. DOI: [10.1109/CSCS.2015.65](https://doi.org/10.1109/CSCS.2015.65). URL: <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7168506>. [AR=50%]
- BELLONI, A., A. BERGER, O. BOISSIER, G. BONNET, G. BOURGNE, P. CHARDEL, J. COTTON, N. EVREUX, J.-G. GANASCIA, P. JAILLON, B. MERMET, G. PICARD, B. REVER, G. SIMON, T. de SWARTE, C. TESSIER, F. VEXLER, R. VOYER, and A. ZIMMERMANN (2014). "Towards A Framework To Deal With Ethical Conflicts In Autonomous Agents And Multi-Agent Systems". In: *12th International Conference on Computer Ethics and Philosophical Enquiry (CEPE'14)*, pp. 1–10.



- GILLANI, S., F. LAFOREST, and G. PICARD (2014). "A Generic Ontology for Prosumer-Oriented Smart Grid". In: *3rd Workshop on Energy Data Management at 17th International Conference on Extending Database Technology*. CEUR Workshop Proceedings, pp. 134–139. URL: <http://ceur-ws.org/Vol-1133/#paper-21>.
- GILLANI, S., G. PICARD, and F. LAFOREST (2014a). "IntelSCEP: Towards an Intelligent Semantic Complex Event Processing Framework for Prosumer-Oriented SmartGrid". In: *International Workshop on Web Intelligence and Smart Sensing (IWWISS'14)*. Ed. by P. MARET and S. HONDA. ACM Digital Library. DOI: [10.1145/2637064.2637110](https://doi.org/10.1145/2637064.2637110). URL: <http://dl.acm.org/citation.cfm?id=2637110&CFID=422236107&CFTOKEN=63603169>.
- GILLANI, S., G. PICARD, and F. LAFOREST (2014b). "Towards a Distributed Semantically Enriched Complex Event Processing and Pattern Matching". In: *3rd International Workshop on Ordering and Reasoning (OrdRing'14)*. CEUR Workshop Proceedings. URL: <http://www.streamreasoning.org/events/ordring2014>.
- PERSSON, C., G. PICARD, F. RAMPARANY, and O. BOISSIER (2014). "A Multi-Agent based Governance of Machine-to-Machine Systems". In: *International Workshop on Web Intelligence and Smart Sensing (IWWISS'14)*. Ed. by P. MARET and S. HONDA. ACM Digital Library, pp. 1–2. DOI: [10.1145/2637064.2637112](https://doi.org/10.1145/2637064.2637112). URL: <http://dl.acm.org/citation.cfm?id=2637112&CFID=422236107&CFTOKEN=63603169>.
- SORICI, A., G. PICARD, and O. BOISSIER (2014). "Towards an Agent enabled Context Management Middleware". In: *International Workshop on Web Intelligence and Smart Sensing (IWWISS'14)*. Ed. by P. MARET and S. HONDA. ACM Digital Library. DOI: [10.1145/2637064.2637111](https://doi.org/10.1145/2637064.2637111). URL: <http://dl.acm.org/citation.cfm?id=2637111&CFID=422236107&CFTOKEN=63603169>.
- EVERAERE, P., M. MORGE, and G. PICARD (2013). "Minimal Concession Strategy for Reaching Fair, Optimal and Stable Marriages". In: *Proceedings of the 20th International Conference on Autonomous Agents and Multiagent Systems (AAMAS'13)*. Ed. by T. ITO, C. JONKER, M. GINI, and O. SHEHORY. International Foundation for Autonomous Agents and Multiagent Systems, pp. 1319–1320. URL: <http://dl.acm.org/citation.cfm?id=2484920.2485203>. [AR=44.28%]
- RIVIÈRE, J., R. LE RICHE, and G. PICARD (2013). "LOOM, an algorithm for finding local optima of expensive functions". In: *International France-China Workshop, NICST'2013 (New and smart Information Communication Science and Technology to support Sustainable Development), 18-20 September 2013, Clermont Ferrand, France*. LIMOS/UPB.
- SORICI, A., O. BOISSIER, G. PICARD, and A. ZIMMERMANN (2013). "Applying Semantic Web Technologies to Context Modeling in Ambient Intelligence". In: *Evolving Ambient Intelligence: AmI 2013 Workshops, Dublin, Ireland, December 3-5, 2013. Revised Selected Papers*. Ed. by M. O'GRADY, H. VAHDAT-NEJAD, K. WOLF, M. DRAGONE, J. YE, C. RÖCKER, and G. O'HARE. Communications in Computer and Information Science 413. Springer, pp. 217–229. DOI: [10.1007/978-3-319-04406-4\\_22](https://doi.org/10.1007/978-3-319-04406-4_22). URL: <http://www.percam.org>.
- VILLANUEVA, D., R. LE RICHE, G. PICARD, and R. T. HAFTKA (2013a). "Dynamic Design Space Partitioning for Optimization of an Integrated Thermal Protection System". In: *9th AIAA Multidisciplinary Design Optimization Specialist Conference co-located with the 54th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference (SDM'13)*. AIAA. DOI: [10.2514/6.2013-1534](https://doi.org/10.2514/6.2013-1534).
- VILLANUEVA, D., R. LE RICHE, G. PICARD, and R. T. HAFTKA (2013b). "Self-organized Space Partitioning for Multi-Agent Optimization". In: *6th International Workshop on Optimisation in Multi-Agent Systems (OPT-MAS 2013, in conjunction with AAMAS 2013 6th-7th May 2013)*.
- BILAL, M., C. PERSSON, F. RAMPARANY, G. PICARD, and O. BOISSIER (2012). "Multi-Agent based governance model for Machine-to-Machine networks in a smart parking management system". In: *Proceedings of IEEE International Conference on Communications, ICC 2012, Ottawa, ON, Canada, June 10-15, 2012, 3rd IEEE International Workshop on SmArt Communications in NEtwork Technologies ('ICC'12 WS - SaCoNet-III')*. IEEE Computer Society, pp. 6468–6472. DOI: [10.1109/ICC.2012.6364789](https://doi.org/10.1109/ICC.2012.6364789).
- PERSSON, C., G. PICARD, F. RAMPARANY, and O. BOISSIER (2012a). "A JaCaMo-Based Governance of Machine-to-Machine Systems". In: *Advances on Practical Applications of Agents and Multiagent Systems, Proc. of the 10th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS 12)*. Ed. by Y. DEMAIZEAU, J. P. MÜLLER, J. M. C. RODRÍGUEZ, and J. B. PÉREZ. Vol. 155. Advances in Soft Computing Series. Springer, pp. 161–168. DOI: [10.1007/978-3-642-28786-2\\_18](https://doi.org/10.1007/978-3-642-28786-2_18). [AR=30.6%]
- PERSSON, C., G. PICARD, F. RAMPARANY, and O. BOISSIER (2012b). "Multi-Agent Based Governance of Machine-to-Machine Systems". In: *9th European Workshop (EUMAS 2011), Revised Selected Papers*. Ed. by M. COSSENTINO,



- M. KAISERS, K. TUYLS, and G. WEISS. Vol. 7541. Lecture Notes in Computer Science (LNCS). Springer, pp. 205–220. DOI: [10.1007/978-3-642-34799-3\\_14](https://doi.org/10.1007/978-3-642-34799-3_14). URL: <http://www.springer.com/computer/ai/book/978-3-642-34798-6>. [AR=26%]
- SORICI, A., G. PICARD, O. BOISSIER, A. SANTI, and J. F. HÜBNER (2012). “Multi-Agent Oriented Reorganisation within the JaCaMo infrastructure”. In: *The 3rd International Workshop on Infrastructures and Tools for Multiagent Systems (ITMAS 2012)*.
- VILLANUEVA, D., R. LE RICHE, G. PICARD, and R. T. HAFTKA (2012a). “Dynamic Partitioning for Balancing Exploitation and Exploration in Constrained Optimization: A Multi-Agent Approach”. In: *14th AIAA/ISSMO Multidisciplinary Analysis and Optimization Conference (MAO)*. AIAA. DOI: [10.2514/6.2012-5440](https://doi.org/10.2514/6.2012-5440).
- VILLANUEVA, D., R. LE RICHE, G. PICARD, and R. T. HAFTKA (2012b). “Surrogate-Based Agents for Constrained Optimization”. In: *14th AIAA Non-Deterministic Approaches Conference, Honolulu, HI*. AIAA. DOI: [10.2514/6.2012-1935](https://doi.org/10.2514/6.2012-1935).
- YAICH, R., O. BOISSIER, P. JAILLON, and G. PICARD (2012a). “An Adaptive and Socially-Compliant Trust Management System for Virtual Communities”. In: *The 27th ACM Symposium On Applied Computing (SAC 2012)*. ACM Press, pp. 2022–2028. DOI: [10.1145/2245276.2232112](https://doi.org/10.1145/2245276.2232112). [AR=26%]
- YAICH, R., O. BOISSIER, P. JAILLON, and G. PICARD (2012b). “An Agent Based Trust Management System for Multi-Agent Based Virtual Communities”. In: *Advances on Practical Applications of Agents and Multiagent Systems, Proc. of the 10th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS 12)*. Ed. by Y. DEMAZEAU, J. P. MÜLLER, J. M. C. RODRÍGUEZ, and J. B. PÉREZ. Vol. 155. Advances in Soft Computing Series. Springer, pp. 217–223. DOI: [10.1007/978-3-642-28786-2\\_24](https://doi.org/10.1007/978-3-642-28786-2_24). [AR=30.6%]
- MORGE, M. and G. PICARD (2011). “Privacy-Preserving Strategy for Negotiating Stable, Equitable and Optimal Matchings”. In: *Advances on Practical Applications of Agents and Multiagent Systems, Proc. of the 9th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS 11)*. Advances in Intelligent and Soft-Computing. Springer, pp. 97–102. DOI: [10.1007/978-3-642-19875-5](https://doi.org/10.1007/978-3-642-19875-5). URL: <http://www.springerlink.com/content/978-3-642-19874-8#section=867062&page=1&locus=0>. [AR=48.1%]
- PERSSON, C., G. PICARD, and F. RAMPARANY (2011). “A Multi-Agent Organization for the Governance of Machine-To-Machine Systems”. In: *IEEE/WIC/ACM International Conference on Intelligent Agent Technology (IAT’11)*. IEEE Computer Society, pp. 421–424. DOI: [10.1109/WI-IAT.2011.161](https://doi.org/10.1109/WI-IAT.2011.161). [AR=21%]
- PERSSON, C., G. PICARD, F. RAMPARANY, and O. BOISSIER (2011a). “A Multi-Agent Organization for the Governance of Machine-to-Machine Systems”. In: *European Workshop on Multi-agent Systems (EUMAS’11)*.
- SORICI, A., O. BOISSIER, G. PICARD, and A. SANTI (2011). “Exploiting the JaCaMo Framework for Realising an Adaptive Room Management Application”. In: *AGERE! (Actors and aGents REloaded) Programming Systems, Languages, and Applications based on Actors, Agents, and Decentralized Control workshop at ACM SPLASH 2011*. ACM Press, pp. 239–242. DOI: [10.1145/2095050.2095088](https://doi.org/10.1145/2095050.2095088).
- VILLANUEVA, D., R. LE RICHE, G. PICARD, R. T. HAFTKA, and B. V. SANKAR (2011). “Decomposition of System Level Reliability-Based Design Optimization to Reduce the Number of Simulations”. In: *ASME 2011 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, Washington, DC, USA*. ASME, pp. 117–126. DOI: [10.1115/DETC2011-47815](https://doi.org/10.1115/DETC2011-47815).
- YAICH, R., O. BOISSIER, P. JAILLON, and G. PICARD (2011). “Social-Compliance in Trust Management within Virtual Communities”. In: *3rd International Workshop on Web Intelligence and Communities (WI&C’11) at the International Conferences on Web Intelligence and Intelligent Agent Technology (WI-IAT 2011)*. IEEE Computer Society, pp. 322–325. DOI: [10.1109/WI-IAT.2011.212](https://doi.org/10.1109/WI-IAT.2011.212).
- YAICH, R., O. BOISSIER, G. PICARD, and P. JAILLON (2011). “Social-Compliance in Trust Management within Virtual Communities”. In: *European Workshop on Multi-agent Systems (EUMAS’11)*.
- GEORGÉ, J.-P., M.-P. GLEIZES, E. KADDOUM, L. MASCIARDI, G. PICARD, and C. RAIBULET (2010). “Criteria for Self-\* Systems Evaluation: a Unified Proposal”. In: *ICSE 2010 Workshop on Software Engineering for Adaptive and Self-managing Systems (SEAMS), Cape Town, South Africa*. ACM/IEEE, pp. 29–38. DOI: [10.1145/1808984.1808988](https://doi.org/10.1145/1808984.1808988).
- KADDOUM, E., M.-P. GLEIZES, J.-P. GEORGÉ, and G. PICARD (2009). “Characterizing and Evaluating Problem Solving Self-\* Systems”. In: *International Conference on Adaptive and Self-adaptive Systems and Applications (ADAPTIVE 2009), 2009 Computation World: Future Computing, Service Computation, Cognitive, Adaptive,*

- Content, Patterns, Athens, Greece, November 15–November 20*. IEEE Computer Society, pp. 137–145. doi: [10.1109/ComputationWorld.2009.100](https://doi.org/10.1109/ComputationWorld.2009.100).
- PICARD, G., J. F. HÜBNER, O. BOISSIER, and M.-P. GLEIZES (2009a). “Reorganisation and Self-organisation in Multi-Agent Systems”. In: *International Workshop on Organizational Modeling (OrgMod’09)*, pp. 66–80. [AR=57.3%]
- CLAIR, G., M.-P. GLEIZES, E. KADDOUM, and G. PICARD (2008b). “Self-Regulation in Self-Organising Multi-Agent Systems for Adaptive and Intelligent Manufacturing Control”. In: *Second IEEE International Conference on Self-Adaption and Self-Organization (SASO 2008), Venice, Italy, 20-24 October 2008*. IEEE Computer Society, pp. 107–116. doi: [10.1109/SASO.2008.19](https://doi.org/10.1109/SASO.2008.19). URL: [http://ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=4663415](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=4663415). [AR=27.1%]
- GARCIA RUIZ, J. E., J.-P. GEORGÉ, and G. PICARD (2008). “The AmICriM Project: A Truly Body Area Network Application”. In: *First International Workshop on Sensor Networks (SN 2008), in conjunction with ICCCN 2008, August 4-7, Virgin Islands, USA*.
- HÜBNER, J. F., R. H. BORDINI, and G. PICARD (2008a). “Jason and MOISE+: Organisational programming in the Agent Contest 2008”. In: *Dagstuhl Seminar on Programming Multi-Agent Systems*. Ed. by R. BORDINI, M. DASTANI, J. DIX, and A. EL FALLAH-SEGHRUCHNI. Vol. 08361.
- HÜBNER, J. F., R. H. BORDINI, and G. PICARD (2008b). “Using jason and MOISE+ to develop a team of cowboys”. In: *Proceedings of the Seventh international Workshop on Programming Multi-Agent Systems (ProMAS 08), Agent Contest, held with The Seventh International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS 2008)*. Ed. by K. HINDRIKS, A. POKAHR, and S. SARDINA, pp. 238–242. doi: [10.1007/978-3-642-03278-3](https://doi.org/10.1007/978-3-642-03278-3). URL: <http://www.springerlink.com/content/t402t436636r/#section=185314&page=1&locus=0>.
- PICARD, G., M.-P. GLEIZES, and P. GLIZE (2007b). “Distributed Frequency Assignment Using Cooperative Self-Organization”. In: *First IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO’07), Boston, Mass., USA, July 9-11, 2007*. IEEE Computer Society, pp. 183–192. doi: [10.1109/SASO.2007.18](https://doi.org/10.1109/SASO.2007.18). URL: <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=4274902>. [AR=20.8%]
- BERNON, C., M.-P. GLEIZES, and G. PICARD (2006). “Enhancing Self-Organising Emergent Systems Design with Simulation”. In: *Seventh International Workshop on Engineering Societies in the Agents World (ESAW’06), Dublin, Ireland from the 6th - 8th September, 2006*. Lecture Notes in Computer Science (LNCS) 4457. Springer-Verlag, pp. 284–299. doi: [10.1007/978-3-540-75524-1](https://doi.org/10.1007/978-3-540-75524-1). URL: <http://www.springerlink.com/content/978-3-540-75522-7/#section=347810&page=1&locus=0>. [AR=58%]
- CAPERA, D., G. PICARD, M.-P. GLEIZES, and P. GLIZE (2005). “A Sample Application of ADELFE Focusing on Analysis and Design : The Mechanism Design Problem”. In: *Fifth International Workshop on Engineering Societies in the Agents World (ESAW’04), 20-22 October 2004, Toulouse, France*. Ed. by M.-P. GLEIZES, A. OMICINI, and F. ZAMBONELLI. Vol. 3451. Lecture Notes in Artificial Intelligence (LNAI). Springer-Verlag, pp. 231–244. doi: [10.1007/11423355\\_17](https://doi.org/10.1007/11423355_17). URL: <http://www.springerlink.com/content/3kc056tmv1bf78bn/>. [AR=51.1%]
- PICARD, G. (2005a). “Cooperative Agent Model Instantiation to Collective Robotics in ADELFE”. In: *Fifth International Workshop on Engineering Societies in the Agents World (ESAW’04), 20-22 October 2004, Toulouse, France*. Ed. by M.-P. GLEIZES, A. OMICINI, and F. ZAMBONELLI. Vol. 3451. Lecture Notes in Artificial Intelligence (LNAI). Springer-Verlag, pp. 209–221. doi: [10.1007/11423355\\_15](https://doi.org/10.1007/11423355_15). URL: <http://www.springerlink.com/content/5ek2vg08a3qcyxuw/>. [AR=51.1%]
- PICARD, G., C. BERNON, and M.-P. GLEIZES (2005a). “Emergent Timetabling Organization”. In: *Multi-Agent Systems and Applications IV - 4th International Central and Eastern European Conference on Multi-Agent Systems (CEEMAS’05), 15-17 September 2005, Budapest, Hungary*. Vol. 3690. Lecture Notes in Artificial Intelligence (LNAI). Springer-Verlag, pp. 440–449. doi: [10.1007/11559221\\_44](https://doi.org/10.1007/11559221_44). URL: <http://www.springerlink.com/content/bcvm1jjad712erpv/>. [AR=40.7%]
- PICARD, G., C. BERNON, and M.-P. GLEIZES (2005b). “ETTO: Emergent Timetabling by Cooperative Self-Organization”. In: *Engineering Self-Organizing Applications – Third International Workshop (ESOA) at the Fourth International Joint Conference on Autonomous Agents and Multi-Agents Systems (AAMAS’05), July 2005, Utrecht, Netherlands*. Vol. 3910. Lecture Notes in Artificial Intelligence (LNAI). Springer-Verlag, pp. 31–45. doi: [10.1007/11734697\\_3](https://doi.org/10.1007/11734697_3). URL: <http://www.springerlink.com/content/v5q7611867rq3011/>. [AR=47%]

- PICARD, G. and M.-P. GLEIZES (2005a). "Cooperative Self-Organization: Designing Robust and Adaptive Robotic Collectives". In: *3rd European Workshop on Multi-Agent Systems (EUMAS'05)*, 7-8 December, Brussels, Belgium. Koninklijke Vlaamse Academie van Belie voor Wetenschappen en Kunsten, pp. 495–496.
- PICARD, G. and M.-P. GLEIZES (2005b). "Cooperative Self-Organization to Design Robust and Adaptive Collectives". In: *Second International Conference on Informatics in Control, Automation and Robotics (ICINCO'05)*, 14-17 September 2005, Barcelona, Spain, Volume I. INSTICC Press, pp. 236–241. [AR=45.07%]
- PICARD, G. and P. GLIZE (2005a). "Cooperative Self-Organization: Modeling and Experiments of Local Decision to Solve Distributed Problems". In: *3rd European Workshop on Multi-Agent Systems (EUMAS'05)*, 7-8 December, Brussels, Belgium. Koninklijke Vlaamse Academie van Belie voor Wetenschappen en Kunsten, pp. 497–498.
- PICARD, G. and P. GLIZE (2005b). "Model and Experiments of Local Decision Based on Cooperative Self-Organization". In: *Second International Indian Conference on Artificial Intelligence (IICAI'05)*, 20-22 December 2005, Pune, India. Ed. by PRASAD, B., 3009–3024. [AR=35%]
- PICARD, G., S. MELLOULI, and M.-P. GLEIZES (2005). "Techniques for Multi-Agent System Reorganization". In: *Sixth International Workshop on Engineering Societies in the Agents World (ESAW'05)*, 26-28 October 2005, Kuşadası, Aydın, Turkey. Ed. by O. DIKENELLI, M.-P. GLEIZES, and A. RICCI. Vol. 3963. Lecture Notes in Artificial Intelligence (LNAI). Springer-Verlag, pp. 142–152. DOI: [10.1007/11759683\\_9](https://doi.org/10.1007/11759683_9). URL: <http://www.springerlink.com/content/u5t7k34040506374/>. [AR=44%]
- CAPERA, D., G. PICARD, M.-P. GLEIZES, and P. GLIZE (July 2004). "Applying ADELFE Methodology to a Mechanism Design Problem". In: *Third Joint Conference on Multi-Agent System (AAMAS'04)*. New York, USA: IEEE Computer Society, pp. 1508–1509. DOI: [10.1109/AAMAS.2004.66](https://doi.org/10.1109/AAMAS.2004.66). URL: <http://portal.acm.org/citation.cfm?id=1019006>. [AR=49.7%]
- PICARD, G., C. BERNON, and M.-P. GLEIZES (July 2004). "Cooperative Agent Model within ADELFE Framework: An Application to a Timetabling Problem". In: *Third Joint Conference on Multi-Agent System (AAMAS'04)*. New York, USA: IEEE Computer Society, pp. 1506–1507. DOI: [10.1109/AAMAS.2004.93](https://doi.org/10.1109/AAMAS.2004.93). URL: <http://portal.acm.org/citation.cfm?id=1019005>. [AR=49.7%]
- BERNON, C., V. CAMPS, M.-P. GLEIZES, and G. PICARD (Oct. 2003a). "Designing Agents' Behaviours within the Framework of ADELFE Methodology". In: *Fourth International Workshop on Engineering Societies in the Agents World (ESAW'03)*. Ed. by A. OMICINI, P. PETTA, and J. PITT. Vol. 3071. Lecture Notes in Artificial Intelligence (LNAI). Imperial College London, UK: Springer-Verlag, pp. 311–327. DOI: [10.1007/978-3-540-25946-6\\_20](https://doi.org/10.1007/978-3-540-25946-6_20). URL: <http://www.springerlink.com/content/m4ya2cvcjx1grhcm/>. [AR=32.2%]
- BERNON, C., V. CAMPS, M.-P. GLEIZES, and G. PICARD (2003b). "Tools for Self-Organizing Applications Engineering". In: *Engineering Self-Organizing Applications – First International Workshop (ESOA) at the Second International Joint Conference on Autonomous Agents and Multi-Agents Systems (AAMAS'03)*. Ed. by G. DI MARZO SERUGENDO, A. KARAGEORGOS, O. F. RANA, and F. ZAMBONELLI. Vol. 2977. Lecture Notes in Artificial Intelligence (LNAI). Melbourne, Australia: Springer-Verlag, pp. 283–298. DOI: [10.1007/978-3-540-24701-2\\_19](https://doi.org/10.1007/978-3-540-24701-2_19). URL: <http://springerlink.metapress.com/content/0muewchfkxx1nym0/>.
- GEORGÉ, J.-P., G. PICARD, M.-P. GLEIZES, and P. GLIZE (June 2003). "Living Design for Open Computational Systems". In: *International Workshop on Theory And Practice of Open Computational Systems (TAPOCS) at 12th IEEE International Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE'03)*. Ed. by M. FREDRIKSSON, A. RICCI, R. GUSTAVSSON, and A. OMICINI. Linz, Austria: IEEE Computer Society, pp. 389–394. DOI: [10.1109/ENABL.2003.1231442](https://doi.org/10.1109/ENABL.2003.1231442). URL: <http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=1231442>. [AR=76.7%]
- PICARD, G. (2003b). "UML Stereotypes Definition and AUML Notations for ADELFE Methodology with Open-Tool". In: *The First European Workshop on Multi-Agent Systems (EUMAS'03)*, St Catherine College, Oxford, 18th and 19th December 2003.
- BERNON, C., M.-P. GLEIZES, S. PEYRUQUEOU, and G. PICARD (Sept. 2002). "ADELFE: a Methodology for Adaptive Multi-Agent Systems Engineering". In: *Third International Workshop on Engineering Societies in the Agents World (ESAW'02)*. Ed. by P. PETTA, R. TOLKSDORF, and F. ZAMBONELLI. Vol. 2577. Lecture Notes in Computer Science (LNCS). Madrid, Spain: Springer-Verlag, pp. 156–169. DOI: [10.1007/3-540-39173-8\\_12](https://doi.org/10.1007/3-540-39173-8_12). URL: <http://www.springerlink.com/content/rheud1raydumk5g1/>. [AR=57.1%]
- BERNON, C., M.-P. GLEIZES, G. PICARD, and P. GLIZE (May 2002). "The ADELFE Methodology For an Intranet System Design". In: *Fourth International Bi-Conference Workshop on Agent-Oriented Information Systems*



(AOIS-2002). Ed. by P. GIORGINI, Y. LESPÉRANCE, G. WAGNER, and E. YU. Vol. 57. CAiSE'02. Toronto, Canada: CEUR Workshop Proceedings. URL: <http://sunsite.informatik.rwth-aachen.de/Publications/CEUR-WS/Vol-57/>.

PICARD, G. and M.-P. GLEIZES (Apr. 2002). "An Agent Architecture to Design Self-Organizing Collectives: Principles and Application". In: *AISB'02 Symposium on Adaptive Multi-Agent Systems (AAMASII)*. Ed. by D. KAZAKOV, D. KUDENKO, and E. ALONSO. Vol. 2636. Lecture Notes in Artificial Intelligence (LNAI). University of London, UK: Springer-Verlag, pp. 141–158. DOI: [10.1007/3-540-44826-8\\_9](https://doi.org/10.1007/3-540-44826-8_9). URL: <http://www.springerlink.com/content/8gqx5072vmb132ta/>.

## National Conferences and Workshops

GUILLET, V., C. LESIRE, G. PICARD, and C. GRAND (2025b). "Extension de CBBA par intercession d'offre pour favoriser l'initiative mixte". French. In: *Journées Francophones sur les Systèmes Multi-Agents (JFSMA-25)*. Cepaduès.

LIGNY, L., G. PICARD, S. ROUSSEL, and E. VAREILLES (2025a). "Configuration de flottes de robots hétérogènes pour la planification de mission: une approche basée programmation par contraintes". In: *Journées Francophones de Programmation par Contraintes (JFPC-25)*.

ROUX, T., F. STUDZINSKI PEROTTO, and G. PICARD (2025b). "Évitement de collision dans des espaces aériens denses: des défis pour l'apprentissage par renforcement multi-agent". French. In: *Journées Francophones sur les Systèmes Multi-Agents (JFSMA-25)*.

FARGES, J.-L., F. PEROTTO, G. PICARD, C. PRALET, C. de LUSSY, J. GUERRA, P. PAVERO, and F. PLANCHOU (2024). "Dépasser l'observation mono-mission de la Terre : utiliser le paradigme multi-agents pour fédérer de multiples missions". In: *Conférence Nationale sur les Applications Pratiques de l'Intelligence Artificielle (APIA'24)*.

GUILLET, V., C. GRAND, C. LESIRE, and G. PICARD (2024b). "Intercession d'enchères pour plus d'initiative mixte dans les algorithmes décentralisés d'allocation de tâches multi-robots basés sur le consensus". In: *Journées Francophones sur les Systèmes Multi-Agents*. Ed. by S. PICAULT. Cepaduès.

HAMADI, Y. and G. PICARD (2024a). "Résolution multicritère socialement acceptable du problème de réparation des contrats 4D dans le cadre de la gestion du trafic aérien sans pilote". In: *Conférence Nationale sur les Applications Pratiques de l'Intelligence Artificielle (APIA'24)*.

PICARD, G. (2023a). "Allocation décentralisée de lots par consensus pour des tâches composites multi-modes". In: *Journées Francophones sur les Systèmes Multi-Agents*. Cepaduès, pp. 11–20.

MAQROT, S., G. PICARD, C. PRALET, and S. ROUSSEL (2022b). "Techniques d'allocation de lots avec des préférences conflictuelles représentées par des graphes acycliques dirigés pondérés". In: *Conférence Nationale en Intelligence Artificielle (CNIA 2022)*.

PICARD, G. (2022b). "Coordination de trajectoires 4D par optimisation distribuée dans la gestion du trafic aérien sans pilote". In: *Journées Francophones sur les Systèmes Multi-Agents*. Cepaduès.

DAOUD, A., F. BALBO, P. GIANESSI, and G. PICARD (2021d). "Un modèle agent générique pour la comparaison d'approches d'allocation de ressources dans le domaine du transport à la demande". In: *Journées Francophones sur les Systèmes Multi-Agents*. Cepaduès, pp. 127–136. [AR=31%]

PICARD, G. (2021b). "Planification multi-utilisateurs et multi-satellites de tâches d'observation dans des constellations avec portions d'orbites exclusives". In: *Journées Francophones sur les Systèmes Multi-Agents*. Cepaduès, pp. 117–126. [AR=31%]

PICARD, G., C. CARON, J.-L. FARGES, J. GUERRA, C. PRALET, and S. ROUSSEL (2021b). "Défis ouverts aux systèmes multi-agents dans le cadre des constellations de satellites d'observation de la Terre". In: *Conférence Nationale sur les Applications Pratiques de l'Intelligence Artificielle (APIA 2021)*, pp. 25–33.

DAOUD, A., F. BALBO, P. GIANESSI, and G. PICARD (2020a). "Approche décentralisée d'insertion avec amélioration continue de la qualité de la solution pour un système TAD". In: *Conférence Nationale d'Intelligence Artificielle et Rencontres des Jeunes Chercheurs en Intelligence Artificielle (RJCIA)*. Association Française pour l'Intelligence Artificielle (AFIA), pp. 99–106. URL: <http://pfia2020.fr/rjcia-2020/>.

PICARD, G. and P. RUST (2020a). "Analyse des performances d'algorithmes DCOP pour l'association d'utilisateurs de réseaux HetNets". In: *Journées Francophones sur les Systèmes Multi-Agents*. Cepaduès. [AR=37.5%]

RUST, P., G. PICARD, and F. RAMPARANY (2019c). "Résilience et auto-réparation de processus de décisions multi-agents". In: *Journées Francophones sur les Systèmes Multi-Agents*. Cepaduès. URL: <https://www.cephadues.fr/>.

[com/livres/JFSMA-2019.-Systèmes-distribués,-embarqués-et-diffus-9782364937192.html](http://www.cephadues.com/livres/JFSMA-2019.-Systèmes-distribués,-embarqués-et-diffus-9782364937192.html). [AR=40%]

- CERQUIDES, J., R. EMONET, G. PICARD, and J. A. RODRÍGUEZ-AGUILAR (2018a). “DeciMaxSum : Décimer pour résoudre des DCOP cycliques plus efficacement”. In: *Journées Francophones sur les Systèmes Multi-Agents*. Cépaduès, pp. 63–72. URL: <https://www.cephadues.com/livres/jfsma-2018-distribution-decentralisation-9782364936751.html>. [AR=21.15%]
- NAJJAR, A., Y. MUALLA, G. PICARD, and K. SINGH (2018). “Négociation multi-agent « un-à-plusieurs » et mécanismes de coordination pour la gestion de la satisfaction des utilisateurs d’un service”. In: *Journées Francophones sur les Systèmes Multi-Agents*. Cépaduès, pp. 95–104. URL: <https://www.cephadues.com/livres/jfsma-2018-distribution-decentralisation-9782364936751.html>. [AR=38.46%]
- PICARD, G. (2018). “Optimisation sous contraintes distribuée : une introduction au domaine”. In: *Journées Francophones sur les Systèmes Multi-Agents*. Cépaduès, pp. 43–52. URL: <https://www.cephadues.com/livres/jfsma-2018-distribution-decentralisation-9782364936751.html>. [AR=21.15%]
- RUST, P., G. PICARD, and F. RAMPARANY (2018a). “Mise en place d’une décision collective résiliente sur une infrastructure IoT à l’aide du framework pyDCOP”. In: *Journées Francophones sur les Systèmes Multi-Agents*. Cépaduès, pp. 223–224. URL: <https://www.cephadues.com/livres/jfsma-2018-distribution-decentralisation-9782364936751.html>. [AR=85%]
- NAJJAR, A., O. BOISSIER, and G. PICARD (2017d). “Négociation one-to-many adaptative pour améliorer l’acceptabilité des services d’un fournisseur SaaS”. In: *25es Journées Francophones sur les Systèmes Multi-Agents (JFSMA)*. Cépaduès, pp. 85–94. URL: <http://www.cephadues.com/livres/jfsma-2017-cohesion-fondement-propriete-emergente-9782364936027.html>. [AR=27%]
- PICARD, G., F. BALBO, and O. BOISSIER (2017). “Approches multiagents pour l’allocation de courses à une flotte de taxis autonomes”. In: *25es Journées Francophones sur les Systèmes Multi-Agents (JFSMA)*. Cépaduès, pp. 75–84. URL: <http://www.cephadues.com/livres/jfsma-2017-cohesion-fondement-propriete-emergente-9782364936027.html>. [AR=27%]
- RUST, P., G. PICARD, and F. RAMPARANY (2017b). “Déploiement d’un graphe de facteurs pour l’exécution d’algorithme DCOP dans des environnements ambiants dynamiques”. In: *25es Journées Francophones sur les Systèmes Multi-Agents (JFSMA)*. Cépaduès, pp. 95–104. URL: <http://www.cephadues.com/livres/jfsma-2017-cohesion-fondement-propriete-emergente-9782364936027.html>. [AR=48.6%]
- RUST, P., G. PICARD, and F. RAMPARANY (2016a). “Approche DCOP pour résoudre des problèmes de configuration économe d’environnements intelligents”. In: *24es Journées Francophones sur les Systèmes Multi-Agents (JFSMA)*. Cépaduès, pp. 65–74. URL: <http://www.cephadues.com/livres/jfsma-2016-systemes-multi-agents-simulation-9782364935594.html>. [AR=59%]
- CERQUIDES, J., G. PICARD, and J. A. RODRÍGUEZ-AGUILAR (2015a). “Conception d’une place de marché pour la vente et la distribution d’énergie dans les smart grids”. In: *23es Journées Francophones sur les Systèmes Multi-Agents (JFSMA’15)*. Ed. by L. VERCOUTER and G. PICARD. Cépaduès. URL: <http://www.cephadues.com/livres/jfsma-2015-systemes-multi-agents-environnements-socio-techniques-9782364931916.html>. [AR=31%]
- SORICI, A., G. PICARD, O. BOISSIER, and A. FLOREA (2015). “Gestionnaire multi-agent de contexte pour les applications d’intelligence ambiante”. In: *23es Journées Francophones sur les Systèmes Multi-Agents (JFSMA’15)*. Ed. by L. VERCOUTER and G. PICARD. Cépaduès. URL: <http://www.cephadues.com/livres/jfsma-2015-systemes-multi-agents-environnements-socio-techniques-9782364931916.html>. [AR=62%]
- GALLAND, S., N. GAUD, S. RODRÍGUEZ, F. BALBO, G. PICARD, and O. BOISSIER (2014). “Contextualiser l’interaction entre agents en combinant dimensions sociale et physique au sein de l’environnement”. In: *22es Journées Francophones sur les Systèmes Multi-Agents (JFSMA’14)*. Cépaduès. [AR=28%]
- PICARD, G., D. VILLANUEVA, R. LE RICHE, and R. T. HAFTKA (2013). “Méthode multi-agent d’optimisation par partitionnement auto-organisé”. In: *21es Journées francophones des systèmes multi-agents (JFSMA’13)*. Cépaduès. [AR=33%]
- PIETTE, E., M. MORGE, and G. PICARD (2013). “Swing++ : méthode multi-agents pour la résolution du problème des mariages stables”. In: *Septièmes journées francophones Modèles Formels de l’Interaction (MFI’13)*.
- VILLANUEVA, D., G. PICARD, R. LE RICHE, and R. T. HAFTKA (2012). “Optimisation multi-agent par partitionnement adaptatif de l’espace de conception”. In: *20es Journées francophones des systèmes multi-agents (JFSMA’12)*. Cépaduès, pp. 149–158. [AR=50%]

- EVERAERE, P., M. MORGE, and G. PICARD (2011). “Casanova : un comportement d’agent pour l’équité des mariages préservant la privacité”. In: *19es Journées francophones des systèmes multi-agents (JFSMA’11)*. Cépaduès, pp. 203–212. [AR=32.5%]
- PERSSON, C., G. PICARD, F. RAMPARANY, and O. BOISSIER (2011b). “Organisation multi-agent pour la gouvernance de systèmes Machine-to-Machine”. In: *19es Journées francophones des systèmes multi-agents (JFSMA’11)*. Cépaduès, pp. 11–20. [AR=32.5%]
- YAICH, R., P. JAILLON, O. BOISSIER, and G. PICARD (2011). “Gestion de la confiance et intégration des exigences sociales au sein de communautés virtuelles”. In: *19es Journées francophones des systèmes multi-agents (JFSMA’11)*. Cépaduès, pp. 213–222. [AR=48.8%]
- KADDOUM, E., M.-P. GLEIZES, J.-P. GEORGÉ, P. GLIZE, and G. PICARD (2009). “Analyse des critères d’évaluation de systèmes multi-agents adaptatifs”. French. In: *Journées Francophones sur les Systèmes Multi-Agents (JFSMA’09)*, Lyon, France, October 19-21. Ed. by Z. GUESSOUM and S. HASSAS. Cépaduès, pp. 123–124. [AR=23.5%]
- PICARD, G., J. F. HÜBNER, O. BOISSIER, and M.-P. GLEIZES (2009b). “Réorganisation et auto-organisation dans les systèmes multi-agents”. French. In: *Journées Francophones sur les Systèmes Multi-Agents (JFSMA’09)*, Lyon, France, October 19-21. Ed. by Z. GUESSOUM and S. HASSAS. Cépaduès, pp. 89–98. [AR=39.2%]
- CLAIR, G., M.-P. GLEIZES, E. KADDOUM, and G. PICARD (2008a). “Approches multi-agents auto-organisatrices pour un contrôle manufacturier intelligent et adaptatif”. French. In: *Journées Francophones sur les Systèmes Multi-Agents (JFSMA’08)*, Brest, France, Octobre 15-17. Cépaduès, pp. 191–200. [AR=40.7%]
- PICARD, G., M.-P. GLEIZES, and P. GLIZE (2007a). “Affectation distribuée de fréquences par auto-organisation coopérative”. French. In: *Journées Francophones sur les Systèmes Multi-Agents (JFSMA’07)*, Carcassonne, France, Octobre 17-19. Cépaduès, pp. 33–42. [AR=22.2%]
- PICARD, G. and M.-P. GLEIZES (2006). “Auto-organisation coopérative pour la conception de collectifs adaptatifs et robustes”. French. In: *7ème Congrès de la Société Française de Recherche Opérationnelle et d’Aide à la Décision (ROADEF’06)*, 6, 7 et 8 Février 2006, Lille, France. Presses Universitaires de Valenciennes, pp. 385–400. [AR=58%]
- PICARD, G. (2005b). “Résolution d’emploi du temps dynamique et distribuée par auto-organisation coopérative”. French. In: *7<sup>es</sup> Rencontres des Jeunes Chercheurs en Intelligence Artificielle (RJCIA’05)*, Plate-forme AFIA, Nice. Presses Universitaires de Grenoble (PUG), pp. 127–140. [AR=55%]
- PICARD, G. and P. GLIZE (2005c). “Modélisation et expérimentations d’une décision locale basée sur l’auto-organisation coopérative”. French. In: *Journées Francophones sur les Systèmes Multi-Agents (JFSMA’05)*, à Calais du 23 au 25 novembre 2005. Hermès-Lavoisier, pp. 161–174.

## Thesis

- PICARD, G. (2014). “Systèmes multi-agents adaptatifs : ingénierie et utilisation dans le cadre de la résolution de problèmes”. French. Habilitation à diriger les recherches (HDR). Université Jean Monnet, Saint-Etienne.
- PICARD, G. (2004). “Méthodologie de développement de systèmes multi-agents adaptatifs et conception de logiciels à fonctionnalité émergente”. French. PhD thesis. Université Paul Sabatier Toulouse III.
- PICARD, G. (2001). “Etude de l’émergence comportementale d’un collectif de robots par auto-organisation coopérative”. French. Rapport de DEA. Université Paul Sabatier Toulouse III.

## Other

- BARRAULT, R., C. PRALET, G. PICARD, and E. SAWYER (2025a). “Hybridation optimisation-apprentissage pour la planification d’observations par un satellite”. In: *Congrès annuel de la Société Française de Recherche Opérationnelle et d’Aide à la Décision (ROADEF-25)*. URL: <http://v4.event-vert.org/uploads/AbstractsBundle/ROADEF2025/summary-7355+BARRAULT++student+newMember+2025-01-14+09-49-07.pdf>.
- LIGNY, L., G. PICARD, S. ROUSSEL, and E. VAREILLES (2025b). “Problèmes de configuration de flottes hétérogènes pour la planification de tâches”. In: *Congrès annuel de la Société Française de Recherche Opérationnelle et d’Aide à la Décision (ROADEF-25)*. URL: <http://v4.event-vert.org/uploads/AbstractsBundle/ROADEF2025/7297+LIGNY++regular+notMember+2024-12-06+12-26-45.pdf>.



- BARRAULT, R., C. PRALET, and G. PICARD (2024). "Optimisation des dates d'observation de sites par un satellite". In: *Congrès annuel de la Société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF-24)*. URL: <https://roadef2024.sciencesconf.org/510469/>.
- PRALET, C., J.-L. FARGES, G. PICARD, F. STUDZINSKI PEROTTO, J. GUERRA, and C. de LUSSY (2024). "Découpage de grandes zones pour l'observation de la Terre à l'aide de plusieurs constellations de satellites". In: *Congrès annuel de la Société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF-24)*. URL: <https://roadef2024.sciencesconf.org/510424>.
- ROBBES, A., G. PICARD, C. PRALET, and S. ROUSSEL (2024). "Partage de temps satellite pour l'observation régulière de grandes zones par une constellation". In: *Congrès annuel de la Société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF-24)*. URL: <https://roadef2024.sciencesconf.org/512139>.
- SESMAT, T., J.-L. FARGES, F. PEROTTO, and G. PICARD (2024). "Réseaux neuro-flous pour la transparence de l'inférence". In: *Journées d'Intelligence Artificielle Hybride : de l'intégration des connaissances et de l'humain à l'explication des modèles (HyCHA'24)*.
- EL HAOUARI, J., G. PICARD, C. PRALET, and S. ROUSSEL (2023). "Planification de tâches d'observation de la Terre sous incertitudes météorologiques". In: *Congrès annuel de la Société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF-23)*. URL: <https://roadef2023.sciencesconf.org/434738/document>.
- PICARD, G. (2023d). *Multi-agent multi-mode composite task allocation problem (MACTA) instances*. Version 1.0. Dataset. DOI: [10.5281/zenodo.7550677](https://doi.org/10.5281/zenodo.7550677). URL: <https://doi.org/10.5281/zenodo.7550677>.
- ROUSSEL, S., G. PICARD, and C. PRALET (2023). *Instances of Orbit Slot Allocation Problems modeled as Directed Path Allocation Problems (DPAP)*. Version 1.0. Dataset. DOI: [10.5281/zenodo.7669379](https://doi.org/10.5281/zenodo.7669379). URL: <https://doi.org/10.5281/zenodo.7669379>.
- MAQROT, S., G. PICARD, C. PRALET, and S. ROUSSEL (2022a). "Allocation de chemins avec des préférences conflictuelles sous forme de graphes pour le partage d'orbites". In: *23ème congrès annuel de la Société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF)*.
- PICARD, G., P. RUST, and F. RAMPARANY (2019). "Coordination et résilience optimales d'objets intelligents". In: *Un état des lieux sur les activités de recherche sur l'intelligence artificielle dans les écoles de l'IMT*. Poster. URL: <https://hal-emse.ccsd.cnrs.fr/emse-02102291>.
- BALBO, F., O. BOISSIER, and G. PICARD (2017). "Approche décentralisée pour l'allocation de courses à la demande à une flotte de taxis autonome". In: *18ème édition du congrès annuel de la Société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF)*. URL: [http://roadef2017.event.univ-lorraine.fr/abstracts/ROADEF2017\\_paper\\_153.pdf](http://roadef2017.event.univ-lorraine.fr/abstracts/ROADEF2017_paper_153.pdf).
- RUST, P., G. PICARD, and F. RAMPARANY (2017a). "Approche par optimisation distribuée pour la configuration autonome et spontanée d'environnements intelligents". In: *18ème édition du congrès annuel de la Société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF)*. URL: [http://roadef2017.event.univ-lorraine.fr/abstracts/ROADEF2017\\_paper\\_126.pdf](http://roadef2017.event.univ-lorraine.fr/abstracts/ROADEF2017_paper_126.pdf).
- VILLANUEVA, D., R. T. HAFTKA, R. LE RICHE, and G. PICARD (2013). "Locating Multiple Designs with Dynamic Partitioning and Surrogates". In: *10th World Congress on Structural and Multidisciplinary Optimization (WCSMO'13)*. ISSMO.
- PICARD, G. and M. MORGE (2011). "Stratégie multi-agent pour la négociation d'appariements stables, équitables et optimaux". French. In: *12e Congrès de la Société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF'11)*, Saint-Etienne.
- VILLANUEVA, D., R. LE RICHE, G. PICARD, and R. HAFTKA (2011). "A Multi-Agent System Approach To Reliability Based Design Optimization Including Future Tests". French. In: *12e Congrès de la Société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF'11)*, Saint-Etienne.
- YAICH, R., P. JAILLON, G. PICARD, and O. BOISSIER (2010). "Toward an adaptive trust policy model for open and decentralized virtual communities". In: *Workshop on Trust and Reputation*. Interdisciplines. URL: <http://www.interdisciplines.org/paper.php?paperID=110>.
- PICARD, G. (2003a). *ADELFE, une méthode de conception de systèmes multi-agents adaptatifs*. French. Université Paul Sabatier, Toulouse, France (Graduate School).

**Synthesis**

<b>Chapters</b>	<b>Journals</b>	<b>Editions</b>	<b>Int. Conf. &amp; Works.</b>	<b>Nat. Conf.</b>
5	25	6	110	39