# **Bibliography**

Gauthier Picard

August 29, 2023

## **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. 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-Seghrouchni 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. 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. 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.
- 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. 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. 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. 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. 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. 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.
- 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. 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. URL: https://doi.org/10.1093/jigpal/jzaa069.
- DAOUD, A., F. BALBO, P. GIANESSI, and G. PICARD (Feb. 2021c). "ORNInA: A Decentralized, Auction-based Multi-agent Coordination in ODT Systems". In: *AI Communications* 34.1, pp. 37–53. DOI: 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.
- 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.
- 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. 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.
- 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. 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.
- CABRI, G., G. PICARD, and N. SURI (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.
- 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.
- GALLAND, S., F. BALBO, N. GAUD, S. RODRÍGUEZ, G. PICARD, and O. BOISSIER (2016). "Environnement multidimensionnel pour contextualiser les interactions des agents dans le cadre de la modélisation du traffic

- routier urbain". French. In: *Revue d'Intelligence Artificielle* 30.1-2, pp. 81–108. DOI: 10.3166/RIA.30.81–108.
- Sorici, A., G. Picard, O. Boissier, A. Zimmermann, and A. Florea (2015). "CONSERT: 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. 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. 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. 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 multiagents". 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. 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. 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**

- 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. [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. URL: https://dl.acm.org/doi/10.5555/3545946.3598677. [AR=23%]
- 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.
- 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. 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, and S. RIZZI (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.
- 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. Endriss, 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. 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. Endriss, 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. [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. URL: 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.
- 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.
- 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 (Opt-MAS@AAMAS 2018)*. URL: http://www-personal.umich.edu/~fioretto/cfp/OPTMAS18/papers/paper\_13.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.
- 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. 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.
- 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. [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. [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. 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. URL: http://www.aamas-conference.org/Proceedings/aamas2015/forms/contents.htm#I4. [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: http://www.aamas-conference.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. [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. [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. [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. [AR=20.8%]
- Sorici, A., O. Boissier, G. Picard, and A. Florea (2015b). "Policy-based Adaptation of Context Provisioning in Aml". In: *Ambient Intelligence Software and Applications 6th International Symposium on Ambient Intelligence (ISAml'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.
- 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. 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. 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. 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. 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. 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.
- 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.
- 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. Demazeau, 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. [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. 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.
- 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.
- 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. [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. [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. 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. [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.
- 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.
- 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.
- 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.

- 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.
- 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. URL: 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-SEGHROUCHNI. 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. 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. 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. 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. URL: http://www.springerlink.com/content/3kc056tmvlbf78bn/. [AR=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. 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. 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. 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. 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. 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. 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. 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. 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. 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. url: http://www.springerlink.com/content/rheudlraydumk5g1/. [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). Univerity of London, UK: Springer-Verlag, pp. 141–158. DOI: 10.1007/3-540-44826-8\_9. URL: http://www.springerlink.com/content/8gqx5072vmbl32ta/.

# **National Conferences and Workshops**

- PICARD, G. (2023a). "Allocation décentralisée de lots par consensus pour des tâches composites multi-modes". In: Journées Francophones sur les Systèmes Multi-Agents. Cépaduès, pp. 11–20.
- MAQROT, S., G. PICARD, C. PRALET, and S. ROUSSEL (2022a). "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. Cépaduès.
- 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 Franco-phones sur les Systèmes Multi-Agents*. Cépaduès, 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*. Cépaduès, 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 laqualité 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. Cépaduès. [AR=37.5%]
- Rust, P., G. Picard, and F. Ramparany (2019c). "Résilience et auto-réparation de processus de décisions multiagents". In: Journées Francophones sur les Systèmes Multi-Agents. Cépaduès. URL: https://www.cepadues. com/livres/JFSMA-2019.-SystÃĺmes-distribuÃl's, -embarquÃl's-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.cepadues.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.cepadues.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.cepadues.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.cepadues.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.cepadues.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.cepadues.com/livres/jfsma-2017-cohesion-fondement-propriete-emergente-9782364936027.html. [AR=27%]
- Rust, P., G. Picard, and F. Ramparany (2017b). "Deploiement 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.cepadues.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.cepadues.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.cepadues.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.cepadues.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 partionnement 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 partition-nement adaptatif de l'espace de conception". In: 20es Journées francophones des systèmes multi-agents (JF-SMA'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 (JF-SMA'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 (JF-SMA'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 (JF-SMA'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'autoorganisation 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**

- 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. 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. URL: https://doi.org/10.5281/zenodo.7669379.
- MAQROT, S., G. PICARD, C. PRALET, and S. ROUSSEL (2022b). "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.
- 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.
- 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 Decision (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 Decision (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**

Chapters	Journals	<b>Editions</b>	Int. Conf. & Works.	Nat. Conf.
5	25	6	95	33