

# Liste de publications de INFO

## Articles dans des revues avec comité de lecture

### 2025

Njoku, U. U., Abelló, A., Bilalli, B., & Bontempi, G. (2025). On many-objective feature selection and the need for interpretability. *Expert systems with applications*, 267, 126191. doi:10.1016/j.eswa.2024.126191

Filiot, E., Jecker, I. R., Puppis, G., Löding, C., Muscholl, A., & Winter, S. (2025). Finite-valued Streaming String Transducers. *TheoretCS*, Volume 4. doi:10.46298/theoretics.25.1

### 2024

Terrucha, I., Fernández Domingos, E., Simoens, P., & Lenaerts, T. (2024). Committing to the wrong artificial delegate in a collective-risk dilemma is better than directly committing mistakes. *Scientific reports*, 14(1), 10460. doi:10.1038/s41598-024-61153-9

Picard, S., Paolillo, A., Geeraerts, G., & Goossens, J. (2024). Exact schedulability test for sporadic mixed-criticality real-time systems using antichains and oracles. *Proceedings of Real-Time and Network Systems*. doi:<https://doi.org/10.1145/3696355.3699702>

Goossens, J., & Masson, D. (2024). Robust Schedulability Tests for Fixed Job Priorities: Addressing Context Switch Costs with Non-Resumable Delays. *Proceedings of Real-Time and Network Systems*. doi:<https://doi.org/10.1145/3696355.3699697>

Decru, T., Fouotsa, T. B., Frixons, P., Gilchrist, V., & Petit, C. (2024). Attacking trapdoors from matrix products. *IACR communications in cryptology*, 3.

Balachander, M., Filiot, E., & Gentilini, R. (2024). Passive Learning of Regular Data Languages in Polynomial Time and Data. *Leibniz international proceedings in informatics*, 311, 10. doi:10.4230/LIPIcs.CONCUR.2024.10

Rivière, Q., Raskin, V., de Melo, R., Boutet, S., Corso, M., Defrance, M., Webb, A. A., Verbruggen, N., & Anoman, D. A. (2024). Effects of light regimes on circadian gene co-expression networks in *Arabidopsis thaliana*. *Plant Direct*, 8(8). doi:10.1002/pld3.70001

Filiot, E., Jecker, I. R., Löding, C., Muscholl, A., Puppis, G., & Winter, S. (2024). Finite-valued Streaming String Transducers. *Proceedings - Symposium on Logic in Computer Science*, 33. doi:10.1145/3661814.3662095

Iacono, J., & Micek, P. (2024). Vertex Ranking of Degenerate Graphs. *arXiv.org*, abs/2404.16340. doi:10.48550/ARXIV.2404.16340

Haeupler, B., Hlad'ik, R., Iacono, J., Rozhon, V., Tarjan, R., & Tetek, J. (2024). Fast and Simple Sorting Using Partial Information. *arXiv.org*, abs/2404.04552. doi:10.48550/ARXIV.2404.04552

- Cattaruzza, D., Labbé, M., Petris, M., Roland, M., & Schmidt, M. (2024). Exact and Heuristic Solution Techniques for Mixed-Integer Quantile Minimization Problems. *INFORMS journal on computing*, 36(4), 1084-1107. doi:10.1287/ijoc.2022.0105
- Bustamante-Faúndez, P., Bucarey L., V., Labbé, M., Marianov, V., & Ordoñez, F. (2024). Playing Stackelberg Security Games in perfect formulations. *Omega*, 126, 103068. doi:10.1016/j.omega.2024.103068
- Kirchsteiger, G., Lenaerts, T., & Suchon, R. (2024). Voluntary versus mandatory information disclosure in the sequential prisoner's dilemma. *Economic theory*. doi:10.1007/s00199-024-01563-y
- Chen, M., Lai, Y.-F., Laval, A., Marco, L., & Petit, C. (2024). Malleable Commitments from Group Actions and Zero-Knowledge Proofs for Circuits Based on Isogenies. *Lecture notes in computer science*, 14459 LNCS, 221-243. doi:10.1007/978-3-031-56232-7\_11
- Nachtegael, C., De Stefani, J., Cnudde, A., & Lenaerts, T. (2024). DUVEL: an active-learning annotated biomedical corpus for the recognition of oligogenic combinations. *Database*, 2024(2024), baae039. doi:10.1093/database/baae039
- Lillepea, K., Juchnewitsch, A. G., Kasak, L., Valkna, A., Dutta, A., Pomm, K., Poolamets, O., Nagirnaja, L., Tamp, E., Mahyari, E., Vihlajajev, V., Tjagur, S., Papadimitriou, S., Riera-Escamilla, A., Versbraegen, N., Farnetani, G., Castillo-Madeen, H., Sütt, M., Kübarsepp, V., Tennisberg, S., Korrovits, P., Krausz, C., Aston, K. I., Lenaerts, T., Conrad, D. D., Punab, M., & Laan, M. (2024). Toward clinical exomes in diagnostics and management of male infertility. *American journal of human genetics*, 111(5), 877-895. doi:10.1016/j.ajhg.2024.03.013
- Booher, J., Bowden, R., Doliskani, J., Boris Fouotsa, T., Galbraith, S. D., Kunzweiler, S., Merz, S. P., Petit, C., Smith, B. D., Stange, K. K., Ti, Y. B., Vincent, C., Voloch, J. F., Weitkämper, C., & Zobernig, L. (2024). Failing to Hash Into Supersingular Isogeny Graphs. *Computer journal*. doi:10.1093/comjnl/bxae038
- Araújo, P. H. #. D. P., Campêlo, M., Corrêa, R. R., & Labbé, M. (2024). Integer programming models and polyhedral study for the geodesic classification problem on graphs. *European journal of operational research*, 314(3), 894-911. doi:10.1016/j.ejor.2023.08.029
- Bhattacharya, S., Lefèvre, L., Chatzistergos, T., Hayakawa, H., & Jansen, M. (2024). RudolfWolf to AlfredWolfer: The Transfer of the Reference Observer in the International Sunspot Number Series (1876–1893). *Solar physics*, 299, 45.
- Bruyère, V., Fievet, B., Raskin, J.-F., & Tamines, C. (2024). Stackelberg-Pareto Synthesis. *ACM transactions on computational logic*, 25(2), 14. doi:10.1145/3651162
- Gravel, B., Renaux, A., Papadimitriou, S., Smits, G., Nowe, A., & Lenaerts, T. (2024). Prioritization of oligogenic variant combinations in whole exomes. *Bioinformatics*, 40(4), btae184. doi:10.1093/bioinformatics/btae184

Cerqueira, V., Torgo, L., & Bontempi, G. (2024). Instance-based meta-learning for conditionally dependent univariate multi-step forecasting. *International journal of forecasting*. doi:10.1016/j.ijforecast.2023.12.010

Simar, C., Colot, M., Cebolla Alvarez, A. M., Petieau, M., Chéron, G., & Bontempi, G. (2024). Machine learning for hand pose classification from phasic and tonic EMG signals during bimanual activities in virtual reality. *Frontiers in Neuroscience*, 18. doi:10.3389/fnins.2024.1329411

Dallant, J., & Iacono, J. (2024). How fast can we play Tetris greedily with rectangular pieces? *Theoretical computer science*, 992, 114405. doi:10.1016/j.tcs.2024.114405

Paldino, G. M., Lebichot, B., Le Borgne, Y.-A., Siblini, W., Oblé, F., Boracchi, G., & Bontempi, G. (2024). The role of diversity and ensemble learning in credit card fraud detection. *Advances in Data Analysis and Classification*, 18(1), 193-217. doi:10.1007/s11634-022-00515-5

Jansen, M. (2024). Information criteria for structured parameter selection in high dimensional tree and graph models. *Digital signal processing*, 148, 104437.

Terrucha, I., Domingos, E. F., Santos, F. C., Simoens, P., & Lenaerts, T. (2024). The art of compensation: How hybrid teams solve collective-risk dilemmas. *PLoS one*, 19(2 February), e0297213. doi:10.1371/journal.pone.0297213

Lenaerts, T., Saponara, M., Pacheco, J. J., & Santos, F. C. (2024). Evolution of a theory of mind. *iScience*, 27(2), 108862. doi:10.1016/j.isci.2024.108862

Aloupis, G., Iacono, J., Langerman, S., "Ozkan, ", & Wuhrer, S. S. (2024). The Complexity of Order Type Isomorphism. *Discrete & computational geometry*, 72(2), 483-502. doi:10.1007/S00454-024-00687-1

Dujmović, V. V., Joret, G., Micek, P., Morin, P. P., & Wood, D. (2024). Bounded-Degree Planar Graphs Do Not Have Bounded-Degree Product Structure. *The electronic journal of combinatorics*, 31(2), P2.51. doi:10.37236/11712

Stefanija, A. P., Buelens, B., Goesaert, E., Lenaerts, T., Pierson, J. R., & Van den Bussche, J. (2024). Toward a Solid Acceptance of the Decentralized Web of Personal Data: Societal and Technological Convergence. *Communications of the ACM*, 67(1), 43-46. doi:10.1145/3624555

Juchnewitsch, A. G., Pomm, K., Dutta, A., Tamp, E., Valkna, A., Lillepea, K., Mahyari, E., Tjagur, S., Belova, G., Kübarsepp, V., Castillo-Madeen, H., Riera-Escamilla, A., Pölluaas, L., Nagirnaja, L., Poolamets, O., Vihljajev, V., Sütt, M., Versbraegen, N., Papadimitriou, S., McLachlan, R. I., Jarvi, K. A., Schlegel, P. P., Tennisberg, S., Korrovits, P., Vigh-Conrad, K., O'Bryan, M. M., Aston, K. I., Lenaerts, T., Conrad, D. D., Kasak, L., Punab, M., & Laan, M. (2024). Undiagnosed RASopathies in infertile men. *Frontiers in endocrinology*, 15, 1312357. doi:10.3389/fendo.2024.1312357

Attafi, O. A., Clementel, D., Kyritsis, K., Capriotti, E., Farrell, G., Fragkouli, S.-C., Castro, L. J., Hatos, A., Lenaerts, T., Mazurenko, S., Mozaffari, S., Pradelli, F., Ruch, P., Savojardo, C., Turina, M. P., Zambelli, F., Piovesan, D., Monzon, A. M.,

Psomopoulos, F. F., & Tosatto, S. S. (2024). DOME Registry: implementing community-wide recommendations for reporting supervised machine learning in biology. *GigaScience*, 13, giae094, 8. doi:10.1093/gigascience/giae094

Lebichot, B., Siblini, W., Paldino, G. M., Le Borgne, Y.-A., Oblé, F., & Bontempi, G. (2024). Assessment of catastrophic forgetting in continual credit card fraud detection. *Expert systems with applications*, 249, 123445. doi:10.1016/j.eswa.2024.123445

Filiot, E., & Winter, S. (2024). Synthesizing Computable Functions from Rational Specifications Over Infinite Words. *International journal of foundations of computer science*, 35(1 AND 2), 179-214. doi:10.1142/S012905412348009X