

# Liste de publications de INFO

## Articles dans des revues avec comité de lecture

### A paraître

Joret, G., & Petit, R. (2025). A Caro-Wei bound for induced linear forests in graphs. *SIAM journal on discrete mathematics*.

Dujmović, V. V., Hickingbotham, R., Hodor, J., Joret, G., La, H., Micek, P., Morin, P., Rambaud, C., & Wood, D. R. (2025). The grid-minor theorem revisited. *Combinatorica*.

Barral, H., Abdeddaïm, Y., Masson, D., & Goossens, J. (2025). Response time analysis for sporadic tasks in uniprocessor fixed-priority scheduling with starting and resuming delays. *Proceedings of Real-Time and Network Systems*.

Alkoudsi, I., Baruah, S., Ekberg, P., Fohler, G., Goossens, J., & Moslehi, M. (2025). Extending Periodic Task Sets with Sporadic Tasks: Computational Complexity and Exact Feasibility Tests. *Proceedings of Real-Time and Network Systems*.

Gaspard, T., Bertout, A., Richard, P., Grolleau, E., & Goossens, J. (2025). An unfair optimal scheduling algorithm for uniform multiprocessors. *Proceedings - Design, Automation, and Test in Europe Conference and Exhibition*.

Schuh, M., Maiza, C., Raymond, P., Ferres, B., Goossens, J., & De Dinechin, B. D. (2025). Communication and Shared Memory Efficient Mapping Techniques of Real-Time DAGs upon Clustered Multicore Platforms. *Proceedings of Real-Time and Network Systems*.

### 2026

Akiyama, J., Langerman, S., & Matsunaga, K. (2026). Unveil the Secret Hidden in the Haberdasher's Puzzle: —Survey on Reversibility—. *Lecture notes in computer science*, 14364 LNCS, 64-82. doi:10.1007/978-3-032-00281-5\_5

### 2025

Gilchrist, V., Marco, L., Petit, C., & Tang, G. (2025). On the security of two blind signatures from code equivalence problems. *IACR communications in cryptology*, 2(4).

Jansen, M. (2025). Constructing wavelets by welding segments of smooth functions. *Journal of Computational and Applied Mathematics*, 477, 117160.

Panny, L., Petit, C., & Stopar, M. (2025). KLaPoTi: An asymptotically efficient isogeny group action from 2-dimensional isogenies. *IACR communications in cryptology*, 2(3).

Akitaya, H. A., Biniarz, A., De Carufel, J. L., Iacono, J., Smid, M. M., Theocharous, L., Aloupis, G., Bose, P., Gavaille, C., Kleist, L., & Souvaine, D. D. (2025). An Improved Bound for Plane Covering Paths. *Leibniz international proceedings in informatics*, 351, 75. doi:10.4230/LIPIcs.ESA.2025.75

Brodal, G. S., Iacono, J., Meyer, U., Sitchinava, N., Goodrich, M. M., Lo, J., Pagan, V., & Svenning, R. (2025). External-Memory Priority Queues with Optimal Insertions. *Leibniz international proceedings in informatics*, 351, 5. doi:10.4230/LIPIcs.ESA.2025.5

Markowitch, O., & Dricot, J.-M. (2025). IoT Security: Threat Detection, Analysis, and Defense. *Future Internet*, 17(9), 399. doi:10.3390/fi17090399

Balachander, M., Filiot, E., & Raskin, J.-F. (2025). LTL Reactive Synthesis with a Few Hints. *Journal of automated reasoning*, 69(3), 24. doi:10.1007/s10817-025-09737-6

Montero Porras, E., Suchon, R., Lenaerts, T., & Fernandez Domingos, E. (2025). From self-interest to collective action: The role of defaults in governing common resources. *PLoS one*, 20(9), e0331348. doi:10.1371/journal.pone.0331348

Njoku, U. U., Abelló, A., Bilalli, B., & Bontempi, G. (2025). Towards fair machine learning using many-objective feature selection. *Applied Soft Computing*, 181, 113411. doi:10.1016/j.asoc.2025.113411

Piron, A., Szymczak, F., Folon, L., Crouch, D. J. M., Papadopoulou, T., Lytrivi, M., Tong, Y., Alvelos, M. I., Colli, M. L., Yi, X., Pekalski, M. M., Hatzikotoulas, K., Huerta-Chagoya, A., Taylor, H. J., Type 2 Diabetes Global Genomics Initiative, Defrance, M., Todd, J. A., Eizirik, D. L., Mercader, J. M., & Cnop, M. (2025). Identification of novel type 1 and type 2 diabetes genes by co-localization of human islet eQTL and GWAS variants with colocRedRibbon. *Cell Genomics*, 101004. doi:10.1016/j.xgen.2025.101004

Saponara, M., Fernandez Domingos, E., Pacheco, J. M. D. S. J., & Lenaerts, T. (2025). Evolution favours positively biased reasoning in sequential interactions with high future gains. *Journal of the Royal Society interface*, 22(229). doi:10.1098/rsif.2025.0153

Balachander, M., Filiot, E., Gentillini, R., & Tzevelekos, N. (2025). Register Automata with Permutations. *Leibniz international proceedings in informatics*, 345, 14. doi:10.4230/LIPIcs.MFCS.2025.14

Biniáz, A., Bose, P., Chung, C., De Carufel, J. L., Iacono, J., Maheshwari, A., Odak, S., Smid, M. M., & Tóth, C. D. (2025). Tight Bounds on the Number of Closest Pairs in Vertical Slabs. *Leibniz international proceedings in informatics*, 349, 8. doi:10.4230/LIPIcs.WADS.2025.8

Dujmovi#, V. V., Joret, G., Micek, P., Morin, P. P., & Wood, D. (2025). Planar Graphs in Blowups of Fans. *Proceedings of the annual ACM-SIAM Symposium on Discrete Algorithms*, 3382-3391.

Fiorini, S., Joret, G., Weltge, S., & Yuditsky, Y. (2025). Integer programs with bounded subdeterminants and two nonzeros per row. *Journal of the Association for Computing Machinery*, 72(1), 3.

Dujmovi#, V. V., Joret, G., Micek, P., & Morin, P. (2025). Tight bound for the Erd#s-Pósa property of tree minors. *Combinatorics, probability & computing*, 34(2), 321-325.

Aprile, M. F., Fiorini, S., Joret, G., Kober, S., Seweryn, M. M., Weltge, S., & Yuditsky, Y. (2025). Integer programs with nearly totally unimodular matrices: the cographic case\*. *Proceedings of the annual ACM-SIAM Symposium on Discrete Algorithms*, 2301-2312.

Demaine, E. D., & Langerman, S. (2025). Tiling with Three Polygons Is Undecidable. *Leibniz international proceedings in informatics*, 332, 39. doi:10.4230/LIPIcs.SoCG.2025.39

Terrucha, I., Fernandez Domingos, E., Suchon, R., Santos, F. F., Simoens, P., & Lenaerts, T. (2025). Humans program artificial delegates to accurately solve collective-risk dilemmas but lack precision. *Proceedings of the National Academy of Sciences of the United States of America*, 122(25). doi:10.1073/pnas.2319942121

Iacono, J., & Nekrich, Y. (2025). Incremental Planar Nearest Neighbor Queries with Optimal Query Time. *Leibniz international proceedings in informatics*, 332, 59. doi:10.4230/LIPIcs.SoCG.2025.59

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Paldino, G. M., Caelen, O., Oueslati, M., Ansay, M., Johanesa, T. V. T., & Bontempi, G. (2025). Integrating Domain Adaptation and Causal Discovery in Digital Twins for Plastic Injection Molding. *IEEE International Conference on Pervasive Computing and Communications Workshops, PerCom Workshops*,(2025), 110-115. doi:10.1109/PerComWorkshops65533.2025.00050

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/theoretcs.25.1

Jansen, M. (2025). Multiscale local polynomial density estimation. *Communications in statistics. Theory and methods*, 54(16), 5164-5190. doi:10.1080/03610926.2024.2434933

Bhattacharyya, R., Kollath, S., & Petit, C. (2025). Code-Based Fully Dynamic Accountable Ring Signatures and Group Signatures Using the Helper Methodology. *Lecture notes in computer science*, 15659 LNCS, 84-103. doi:10.1007/978-981-96-9098-5\_5

Castricky, W., Decru, T., Kutas, P., Laval, A., Petit, C., & Ti, Y. B. (2025). KLPT2: Algebraic Pathfinding in Dimension Two and Applications. *Lecture notes in computer science*, 16000 LNCS, 167-200. doi:10.1007/978-3-032-01855-7\_6

Chen, M., & Petit, C. (2025). Computing the Endomorphism Ring of a Supersingular Elliptic Curve from a Full Rank Suborder. *Lecture notes in computer science*, 15606 LNCS, 446-474. doi:10.1007/978-3-031-91095-1\_16

Kunzweiler, S., Maino, L., Moriya, T., Petit, C., Pope, G., Robert, D., Stopar, M., & Ti, Y. B. (2025). Radical 22-Isogenies and Cryptographic Hash Functions in

Dimensions 1,21, 2 and 33. *Lecture notes in computer science*, 15676 LNCS, 265-299.  
doi:10.1007/978-3-031-91826-1\_9

Cai, S., Chen, M., & Petit, C. (2025). Faster Algorithms for Isogeny Computations over Extensions of Finite Fields. *Lecture notes in computer science*, 14966 LNCS, 136-155. doi:10.1007/978-3-031-82380-0\_4

## Articles dans des revues sans comité de lecture

### 2025

Akitaya, H. A., Aloupis, G., Biniiaz, A., Bose, P., De Carufel, J. L., Gavoille, C., Iacono, J., Kleist, L., Smid, M. M., Souvaine, D. D., & Theodorou, L. (2025). An Improved Bound for Plane Covering Paths. *arXiv.org*, arXiv:2507.06477.

Iacono, J., & Nekrich, Y. (2025). Incremental Planar Nearest Neighbor Queries with Optimal Query Time. *arXiv.org*, arXiv:2504.07366.

Biniiaz, A., Bose, P., Chung, C., De Carufel, J. L., Iacono, J., Maheshwari, A., Odak, S., Smid, M. M., & Tóth, C. D. (2025). Tight Bounds on the Number of Closest Pairs in Vertical Slabs. *arXiv.org*, arXiv:2502.17600.

## Rapports de recherche, comptes rendus, lettres à l'éditeur, working papers

### 2026

Bosch, I., Gravel, B., Renaux, A., Nowé, A., Laan, M., & Lenaerts, T. (2026). Benchmarking knowledge graph embedding models for the prediction of oligogenic combinations. *Briefings in bioinformatics*, 27. doi:https://doi.org/10.1093/bib/bbaf712