

Full list of publications

- Publications [1] - [66] are articles in peer-reviewed international journals.
- Publications [67] - [71] are articles currently under review at peer-reviewed international journals and conferences.
- Publications [72] - [86] are articles that have appeared at international peer-reviewed conferences with proceedings.
- Publications [87] - [89] are book reviews.
- Publications [90] - [98] are unpublished manuscripts and notes (on arXiv).

Within each grouping the publications are listed in reverse chronological order.

References

- [1] Martin Frohn, Niels Holtgreffe, Leo van Iersel, Mark Jones, and Steven Kelk. Bounds on the sequence length sufficient to reconstruct level-1 phylogenetic networks. *To appear in Annals of Combinatorics*, 2026.
- [2] David Mestel, Steven Chaplick, Steven Kelk, and Ruben Meuwese. Split-or-decompose: Improved fpt branching algorithms for maximum agreement forests. *To appear in Journal of Computer and System Sciences*, 2026.
- [3] Virginia Aardevol Martinez, Steven Chaplick, Steven Kelk, Ruben Meuwese, Matus Mihalak, and Georgios Stamoulis. Relaxed agreement forests. *To appear in Journal of Graph Algorithms and Applications*, 2026.
- [4] Martin Frohn, Steven Kelk, and Simona Vychytilova. A branch-&-price approach to the unrooted maximum agreement forest problem. *To appear in Operations Research Letters*, 2025.
- [5] Steven Kelk, Simone Linz, and Charles Semple. Bounding the snpr distance between two tree-child networks using generalised agreement forests. *To appear in Electronic Journal of Combinatorics*, 2025.
- [6] Eva Czabarka, Steven Kelk, Vincent Moulton, and László A Székely. Coconvex characters on collections of phylogenetic trees. *Advances in Applied Mathematics*, 172:102952, 2026.
- [7] Martin Frohn, Niels Holtgreffe, Leo van Iersel, Mark Jones, and Steven Kelk. Reconstructing semi-directed level-1 networks using few quarnets. *Journal of Computer and System Sciences*, 152:103655, 2025.
- [8] Martin Frohn and Steven Kelk. A 2-approximation algorithm for the softwired parsimony problem on binary, tree-child phylogenetic networks. *Annals of Operations Research*, 345(1):125–145, 2025.
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- [13] Miguel Bosch-Calvo and Steven Kelk. An improved kernel for the flip distance problem on simple convex polygons. *Information Processing Letters*, 182:106381, 2023.
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- [17] Rim van Wersch, Steven Kelk, Simone Linz, and Georgios Stamoulis. Reflections on kernelizing and computing unrooted agreement forests. *Annals of Operations Research*, 309(1):425–451, 2022.

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