

VERÖFFENTLICHUNGEN

- Kim-Manuel Klein:
On the Fine-Grained Complexity of the Unbounded SubsetSum and the Frobenius Problem, 33rd Annual ACM-SIAM Symposium on Discrete Algorithms **SODA 2022** (Westin Alexandria)
- Kim-Manuel Klein, Janina Reuter:
Collapsing the Tower - On the Complexity of Multistage Stochastic IPs, 33rd Annual ACM-SIAM Symposium on Discrete Algorithms **SODA 2022** (Westin Alexandria)
- Klaus Jansen, Kim-Manuel Klein, Max Deppert :
Fuzzy Simultaneous Congruences, 46th International Symposium on Mathematical Foundations of Computer Science **MFCS 2021** (Tallinn)
- Klaus Jansen, Kim-Manuel Klein, Alexandra Lassota :
The Double Exponential Runtime is Tight for 2-Stage Stochastic ILPs, 22nd Conference on Integer Programming and Combinatorial Optimization **IPCO 2021**
- Sebastian Berndt, Klaus Jansen, Kim-Manuel Klein:
New Bounds for the Vertices of the Integer Hull, SIAM Symposium on Simplicity in Algorithms **SOSA 2021**
- Kim-Manuel Klein:
About the Complexity of Two-Stage Stochastic IPs, 21st Conference on Integer Programming and Combinatorial Optimization **IPCO 2020** (London), (**best paper award**)
Journal: accepted at **Mathematical Programming**
- Klaus Jansen, Kim-Manuel Klein, Marten Maack, Malin Rau:
Empowering the Configuration-IP - New PTAS Results for Scheduling with Setup Times, 10th Innovations in Theoretical Computer Science Conference, **ITCS 2019** (San Diego)
Journal: accepted at **Mathematical Programming**
- Kilian Grage, Klaus Jansen, Kim-Manuel Klein:
An EPTAS for Machine Scheduling with Bag-Constraints, The 31st ACM Symposium on Parallelism in Algorithms and Architectures, **SPAA 2019** (Phoenix, AZ)
- Friedrich Eisenbrand, Christoph Hunkenschröder, Kim-Manuel Klein:
Faster Algorithms for Integer Programs with Block Structure, 45th International Colloquium on Automata, Languages, and Programming, **ICALP 2018** (Prague)
- Sebastian Berndt, Kim-Manuel Klein:
Using Structural Properties for Integer Programs, 14th Conference on Computability in Europe, **CiE 2018** (Kiel)
- Klaus Jansen, Kim-Manuel Klein:
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Journal: **Mathematics of Operations Research**, Volume 45(4)
- Klaus Jansen, Kim-Manuel Klein, Maria Kosche, Leon Ladewog:
Online Strip Packing with Polynomial Migration, Approximation, Randomization, and Combinatorial Optimization. Algorithms and Techniques, **APPROX/RANDOM 2017** (Berkeley)
- Klaus Jansen, Kim-Manuel Klein, Jose Verschae:
Closing the Gap for Makespan Scheduling via Sparsification Techniques, 43rd International Colloquium on Automata, Languages, and Programming, **ICALP 2016** (Rome),
Journal: **Mathematics of Operations Research**, Volume 45(4)
- Kim-Manuel Klein:
Robust Bin Packing, **Encyclopedia of Algorithms 2016**

- Cristina Bazgan, Ljiljana Brankovic, Katrin Casel, Henning Fernau, Klaus Jansen, Kim-Manue Klein, Michael Lampis, Mathieu Liedloff, Jerome Monnot, Vangelis Th. Paschos:
The many facets of upper domination, Journal: **Theoretical Computer Science**, Volume 717
- Sebastian Berndt, Klaus Jansen, Kim-Manuel Klein:
Fully Dynamic Bin Packing Revisted, Approximation, Randomization, and Combinatorial Optimization. Algorithms and Techniques, **APPROX/RANDOM 2015** (Princeton),
Journal: **Mathematical Programming** 2018, Volume 179
- Klaus Jansen, Kim-Manuel Klein:
A Robust AFPTAS for Bin Packing with Polynomial Migration, Automata, Languages, and Programming - 40th International Colloquium, **ICALP 2013** (Riga),
Journal: **SIAM Journal on Discrete Mathematics**, Volume 33

PREPRINTS

- Friedrich Eisenbrand, Christoph Hunkenschroder, **Kim-Manuel Klein**, Martin Koutecký, Asaf Levin, Shmuel Onn:
An Algorithmic Theory of Integer Programming, ArXiv: <https://arxiv.org/abs/1904.01361>