

# ALENEX14 – Accepted Papers

Christoph Dürr and Oscar C. Vásquez

Order constraints for single machine scheduling with non-linear cost

Takuya Akiba, Yoichi Iwata, Ken-Ichi Kawarabayashi and Yuki Kawata

Fast Shortest-path Distance Queries on Road Networks by Pruned Highway Labeling

Markus Chimani and Robert Zeranski

An Exact Approach to Upward Crossing Minimization

Ulrich Bauer, Michael Kerber and Jan Reininghaus

Distributed computation of persistent homology

Mark Ortmann and Ulrik Brandes

Triangle Listing Algorithms: Back from the Diversion

Lars Arge, Jakob Truelsen and Yang Jungwoo

Simplifying massive planar subdivisions

Daniel Larkin, Siddhartha Sen and Robert Tarjan

Experimental Heaps: A Back-to-Basics Comparative Study of Priority Queues

Shrinu Kushagra, Alejandro Lopez-Ortiz, Ian Munro and Aurick Qiao

Multi-Pivot Quicksort: Theory and Experiments

Ben Strasser and Dorothea Wagner

Connection Scan Accelerated

Carsten Gutwenger, Petra Mutzel and Marcus Schaefer

Practical Experience with Hanani-Tutte for Testing c-Planarity

Hannah Bast and Sabine Storandt

Flow-Based Guidebook Routing

Benjamin A. Burton

Enumerating fundamental normal surfaces: Algorithms, experiments and invariants

Morten Kragelund Holt, Jens Johansen and Gerth Stølting Brodal

On the Scalability of Computing Triplet and Quartet Distances

Guillaume Sabran, Samitha Samaranayake and Alexandre Bayen

Precomputation techniques for the stochastic on-time arrival problem

Yuzuru Okajima

Top-k Substring Matching for Auto-Completion