Inge Li Gørtz - DTU Orbit (08/06/2019)

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Department of Applied Mathematics and Computer Science - Associate Professor

Algorithms and Logic

Research outputs:

A separation between RLSLPs and LZ77
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Compressed Communication Complexity of Longest Common Prefixes
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

Dynamic Relative Compression, Dynamic Partial Sums, and Substring Concatenation
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Finger Search in Grammar-Compressed Strings
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Fingerprints in compressed strings
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Subsequence automata with default transitions
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Compressed Subsequence Matching and Packed Tree Coloring
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Deterministic indexing for packed strings
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Fast Dynamic Arrays
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review
Immersive Algorithms: Better Visualization with Less Information
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Lempel-Ziv Compression in a Sliding Window
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Space-Efficient Re-Pair Compression
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Tight bounds for top tree compression
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Time-space trade-offs for lempel-ziv compressed indexing
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Boxed Permutation Pattern Matching
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Capacitated Vehicle Routing with Non-Uniform Speeds
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Distance labeling schemes for trees
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Dynamic Relative Compression, Dynamic Partial Sums, and Substring Concatenation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Finger Search in Grammar-Compressed Strings
Locating Depots for Capacitated Vehicle Routing
Gørtz, I. L. & Nagarajan, V., 2016, In : Networks. 68, 2, p. 94-103
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Longest common extensions in trees.
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Sparse Text Indexing in Small Space
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Subsequence Automata with Default Transitions
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Compressed Data Structures for Range Searching
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review

Longest Common Extensions in Sublinear Space
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review

Longest Common Extensions in Trees
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review

Minimum Makespan Multi-Vehicle Dial-a-Ride
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Tree compression with top trees
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Compact q-gram profiling of compressed strings
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Compressed Subsequence Matching and Packed Tree Coloring
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Indexing Motion Detection Data for Surveillance Video
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

String Indexing for Patterns with Wildcards
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Substring Range Reporting
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Time–space trade-offs for longest common extensions
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Union-Find with Constant Time Deletions
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Compact q-gram Profiling of Compressed Strings
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2013 › Research › peer-review

Fingerprints in Compressed Strings
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2013 › Research › peer-review

Sparse suffix tree construction in small space
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2013 › Research › peer-review
Tree compression with top trees
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2013 › Research › peer-review

Fast Arc-Annotated Subsequence Matching in Linear Space
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Longest Common Extensions via Fingerprinting
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2012 › Research › peer-review

Stochastic vehicle routing with recourse
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2012 › Research › peer-review

String Indexing for Patterns With Wildcats
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2012 › Research › peer-review

String matching with variable length gaps
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Time-Space Trade-offs for Longest Common Extensions
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2012 › Research › peer-review

Active Learning in Large Classes
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

Capacitated Vehicle Routing with Non-Uniform Speeds
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

Locating Depots for Capacitated Vehicle Routing
Substring Range Reporting

The Tree Inclusion Problem: In Linear Space and Faster

Fast Arc-Annotated Subsequence Matching in Linear Space

String Matching with Variable Length Gaps

Improved Approximate String Matching and Regular Expression Matching on Ziv-Lempel Compressed Texts

Matching Subsequences in Trees

Minimum Makespan Multi-vehicle Dial-a-Ride

Asymmetric k-Center with Minimum Coverage

Finding Well-Balanced Pairs of Edge-Disjoint Trees in Edge-Weighted Graphs

Improved Approximate String Matching and Regular Expression Matching on Ziv-Lempel Compressed Texts

Asymmetry in k-Center Variants
Hardness of Preemptive Finite Capacity Dial-a-Ride
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Matching Subsequences in Trees
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Projects:

Differential Privacy and Approximation Algorithms
Steiner, T. A., Gørtz, I. L., Bille, P. & Rotenberg, E.
15/02/2019 → 14/02/2022
Project: PhD

Flows and Colourings
Langhede, R. M., Thomassen, C., Gørtz, I. L. & Rotenberg, E.
Technical University of Denmark
01/01/2018 → 31/12/2020
Project: PhD

Graph Coloring and Decomposition
Technical University of Denmark
01/08/2016 → 31/07/2019
Project: PhD

Compressed Computation on Structured Data
Etienne, M. B., Bille, P., Gørtz, I. L., Witt, C., Fischer, J. C. & Munro, J. I.
Samfinansieret - Andet
01/05/2015 → 14/11/2018
Project: PhD

Algorithms for Compressed Computation
Samfinansieret - Andet
01/11/2014 → 13/03/2018
Project: PhD

Matching and Compression of Strings with Automata and Word Packing
Forskningsrådsfinansiering
01/03/2014 → 14/06/2017
Project: PhD

Decomposition of Graphs
Merker, M., Thomassen, C., Gørtz, I. L., Bang-Jensen, J. & Barat, J.
EU-finansieret
01/09/2013 → 23/11/2016
Project: PhD
Algorithms for Metadata
Technical University of Denmark
01/10/2012 → 20/05/2015
Project: PhD

Fast Approximate Tree Pattern Matching
Cording, P. H., Bille, P., Gørtz, I. L., Fischer, P., Grossi, R. & Landau, G. M.
Technical University of Denmark
15/12/2011 → 04/03/2015
Project: PhD

Approximate Text Indexing and String Matching Algorithms
Vildhøj, H. W., Gørtz, I. L., Bille, P., Witt, C., Farach-Colton, M. & Lewenstein, M.
Technical University of Denmark
15/09/2011 → 19/12/2014
Project: PhD