Algorithms and Logic - Publications - DTU Orbit (03/06/2018)

Formalization of the Resolution Calculus for First-Order Logic
Publication: Research - peer-review › Journal article – Annual report year: 2018

A Dynamic Logic for Learning Theory
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Agent Programming Languages and Logics in Agent-Based Simulation
Publication: Research - peer-review › Book chapter – Annual report year: 2018

A hamiltonian cycle in the square of a 2-connected graph in linear time
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Compressed and Practical Data Structures for Strings
Publication: Research › Ph.D. thesis – Annual report year: 2018

Density of Real Zeros of the Tutte Polynomial
Publication: Research - peer-review › Journal article – Annual report year: 2018

Dynamic bridge-finding in $O(\log^2 n)$ amortized time
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Formalization of Bachmair and Ganzinger's Ordered Resolution Prover
Publication: Research - peer-review › Journal article – Annual report year: 2018

In-place sparse suffix sorting
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Multi-Agent Programming Contest 2016 – The Python-DTU Team
Villadsen, J., Halkjær From, A., Jacobi, S. & Larsen, N. N. 2018 In : International Journal of Agent-Oriented Software Engineering. 6, 1, p. 86-100
Publication: Research - peer-review › Journal article – Annual report year: 2018

Natural Deduction and the Isabelle Proof Assistant
Publication: Research - peer-review › Journal article – Annual report year: 2018
Online bipartite matching with amortized $O(\log^2 n)$ replacements
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

On the Approximation Ratio of Lempel-Ziv Parsing
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Optimal Mutation Rates for the (1+ λ) EA on OneMax Through Asymptotically Tight Drift Analysis
Gießen, C. & Witt, C. 2018 In : Algorithmica. 80, 5, p. 1710-1731
Publication: Research - peer-review › Journal article – Annual report year: 2018

Optimal-time text indexing in BWT-runs bounded space
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Querying Social Practices in Hospital Context
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

The bane of low-dimensionality clustering
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

The flow index and strongly connected orientations
Li, J., Thomassen, C., Wu, Y. & Zhang, C-Q. 2018 In : European Journal of Combinatorics. 70, p. 164-177
Publication: Research - peer-review › Journal article – Annual report year: 2018

The Impact of Parametrization on Randomized Search Heuristics
Publication: Research › Ph.D. thesis – Annual report year: 2018

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

Contracting a planar graph efficiently
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Best laid plans of lions and men
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017
Fingerprints in compressed strings
Publication: Research - peer-review › Journal article – Annual report year: 2017

Subsequence automata with default transitions
Publication: Research - peer-review › Journal article – Annual report year: 2017

A Cycle of Maximum Order In a Graph of High Minimum Degree has a Chord
Harvey, D. J. 2017 In : The Electronic Journal of Combinatorics. 24, 4, 8 p., P4.33
Publication: Research - peer-review › Journal article – Annual report year: 2017

A Framework for Organization-Aware Agents
Publication: Research - peer-review › Journal article – Annual report year: 2017

A framework of DYNAMIC data structures for string processing
Publication: Research - peer-review › Journal article – Annual report year: 2017

A gentle introduction to epistemic planning: The DEL approach
Publication: Research - peer-review › Conference article – Annual report year: 2017

Amalgams and χ-Boundedness
Penev, I. 2017 In : Journal of Graph Theory. 84, 1, p. 57–92
Publication: Research - peer-review › Journal article – Annual report year: 2017

An Approach for Hospital Planning with Multi-Agent Organizations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

An Approach for Hospital Planning with Multi-Agent Organizations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

A Natural Logic for Natural-language Knowledge Bases
Publication: Research - peer-review › Book chapter – Annual report year: 2017

A proof of the Barát-Thomassen conjecture
Publication: Research - peer-review › Journal article – Annual report year: 2017

A Runtime Analysis of Parallel Evolutionary Algorithms in Dynamic Optimization
Publication: Research - peer-review › Journal article – Annual report year: 2016

Certified Soundness of Simplest Known Formulation of First-Order Logic
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017
Characterizing width two for variants of treewidth
Publication: Research - peer-review › Journal article – Annual report year: 2015

Chords in longest cycles
Publication: Research - peer-review › Journal article – Annual report year: 2017

Chromatic number via Turán number
Publication: Research - peer-review › Journal article – Annual report year: 2017

Compressed Subsequence Matching and Packed Tree Coloring
Bille, P., Cording, P. H. & Gørtz, I. L. 2017 In : Algorithmica. 77, 2, p. 336–348
Publication: Research - peer-review › Journal article – Annual report year: 2015

Cooperative epistemic multi-agent planning for implicit coordination
Publication: Research - peer-review › Conference article – Annual report year: 2017

Cycles through all finite vertex sets in infinite graphs
Publication: Research - peer-review › Journal article – Annual report year: 2017

Density of Real Zeros of the Tutte Polynomial
Publication: Research - peer-review › Journal article – Annual report year: 2017

Deterministic indexing for packed strings
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Epistemic Planning: (Dagstuhl Seminar 17231)
Publication: Research - peer-review › Report – Annual report year: 2017

Evidence logics with relational evidence
Baltag, A. & Occhipinti, A. 2017 In : Lecture Notes in Computer Science. 10445, p. 17-32
Publication: Research - peer-review › Conference article – Annual report year: 2017

Fast Dynamic Arrays
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

First-Order Logic According to Harrison
Publication: Research - peer-review › Journal article – Annual report year: 2017
Flexible indexing of repetitive collections
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Formalization of Many-Valued Logics
Publication: Research - peer-review › Book chapter – Annual report year: 2017

Formalizing a Paraconsistent Logic in the Isabelle Proof Assistant
Villadsen, J. & Schlichtkrull, A. 2017 In : LNCS Transactions on Large-Scale Data- and Knowledge-Centered Systems. 34 , p. 92-122
Publication: Research - peer-review › Journal article – Annual report year: 2017

From LZW77 to the run-length encoded burrows-wheeler transform, and back
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Graphs with No Induced Five-Vertex Path or Antipath
Publication: Research - peer-review › Journal article – Annual report year: 2016

Immersive Algorithms: Better Visualization with Less Information
Bille, P. & Gørtz, I. L. 2017 *Proceedings of ITiCSE ’17*. Association for Computing Machinery, 2 p.
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Leading the Teacher Team - Balancing Between Formal and Informal Power in Program Leadership
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Learning to Act: Qualitative Learning of Deterministic Action Models
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Publication: Research - peer-review › Journal article – Annual report year: 2018

Lempel-Ziv Compression in a Sliding Window
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Logical Entity Level Sentiment Analysis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Lower bounds on the run time of the univariate marginal distribution algorithm on OneMax
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017
Matching and Compression of Strings with Automata and Word Packing
Publication: Research › Ph.D. thesis – Annual report year: 2017

Motif trie: An efficient text index for pattern discovery with don't cares
Publication: Research - peer-review › Journal article – Annual report year: 2018

NaDeA: A Natural Deduction Assistant with a Formalization in Isabelle
Publication: Research - peer-review › Journal article – Annual report year: 2017

Nash Equilibria in Symmetric Graph Games with Partial Observation
Publication: Research - peer-review › Journal article – Annual report year: 2016

On a combination of the 1-2-3 conjecture and the antimagic labelling conjecture
Publication: Research - peer-review › Journal article – Annual report year: 2017

On a directed variation of the 1-2-3 and 1-2 Conjectures
Publication: Research - peer-review › Journal article – Annual report year: 2016

On q-power cycles in cubic graphs
Bensmail, J. 2017 In : Discussiones Mathematicae. Graph Theory. 37, p. 211–220
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On the Minimum Number of Spanning Trees in k-Edge-Connected Graphs
Publication: Research - peer-review › Journal article – Annual report year: 2016

Pathway computation in models derived from bio-science text sources
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Querying Natural Logic Knowledge Bases
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

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Publication: Research › Ph.D. thesis – Annual report year: 2017

Space-Efficient Re-Pair Compression
Spanning quadrangulations of triangulated surfaces
Publication: Research - peer-review › Journal article – Annual report year: 2017

Structural properties of recursively partitionable graphs with connectivity 2
Publication: Research - peer-review › Journal article – Annual report year: 2016

Succinct partial sums and fenwick trees
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The (1+λ) evolutionary algorithm with self-adjusting mutation rate
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

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Publication: Research - peer-review › Journal article – Annual report year: 2017

The Interplay of Population Size and Mutation Probability in the (1+λ) EA on OneMax
Publication: Research - peer-review › Journal article – Annual report year: 2016

The number of colorings of planar graphs with no separating triangles
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The square of a planar cubic graph is 7-colorable
Publication: Research - peer-review › Journal article – Annual report year: 2017

Tight bounds for top tree compression
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Time-space trade-offs for lempel-ziv compressed indexing
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Upper bounds on the runtime of the univariate marginal distribution algorithm on OneMax
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Finger Search in Grammar-Compressed Strings
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Formalization of the Resolution Calculus for First-Order Logic
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Publication: Research › Ph.D. thesis – Annual report year: 2016

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Guest Editorial: Theory of Evolutionary Computation
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Hedetniemi's conjecture for Kneser hypergraphs
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How I convinced Isabelle that resolution is complete
Schlichtkrull, A. 2016
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Infinitely connected subgraphs in graphs of uncountable chromatic number
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Liftings in Finite Graphs and Linkages in Infinite Graphs with Prescribed Edge-Connectivity
Ok, S., Richter, R. B. & Thomassen, C. 2016 In : Graphs and Combinatorics. 32, 6, p. 2575-2589
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Locating Depots for Capacitated Vehicle Routing
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Longest common extensions in trees.
Maximal unbordered factors of random strings

Nash-Williams' cycle-decomposition theorem

On the Relationship between a Computational Natural Logic and Natural Language

Optimal mutation rates for the (1+λ) EA on OneMax

Orientations of infinite graphs with prescribed edge-connectivity

Paraconsistency

Parallel Lookups in String Indexes

ProofJudge: Automated Proof Judging Tool for Learning Mathematical Logic

Robustness of Populations in Stochastic Environments

Running a Prover in a Prover - Isabelle as a Meta-Logic
Villadsen, J. 2016 Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Sparse Text Indexing in Small Space

Selskabet for Naturlærens Udbredelse - naturvidenskabsformidling gennem 191 år
Subsequence Automata with Default Transitions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Synthetic Completeness Proofs for Seligman-style Tableau Systems
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The 3-flow conjecture, factors modulo k, and the 1-2-3-conjecture
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The complexity of deciding whether a graph admits an orientation with fixed weak diameter
Bensmail, J., Duvgnau, R. & Kirgizov, S. 2016 In : Discrete Mathematics and Theoretical Computer Science . 17, 3, p. 31-42
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The Resolution Calculus for First-Order Logic
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Update Strength in EDAs and ACO: How to Avoid Genetic Drift
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Verication of an LCF-Style First-Order Prover with Equality
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Hashing for Statistics over K-Partitions
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Planar Reachability in Linear Space and Constant Time
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(1+1) EA on Generalized Dynamic OneMax
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Completeness and Termination for a Seligman-style Tableau System
Blackburn, P. R., Bolander, T., Braüner, T. & Jørgensen, K. F. 2015 In : Journal of Logic and Computation. 27, 1, p. 81-107
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Complexity Results in Epistemic Planning
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Compressed Data Structures for Range Searching

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Computing Pathways in Bio-Models Derived from Bio-Science Text Sources

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Cooperative Epistemic Multi-Agent Planning With Implicit Coordination

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Decomposing series-parallel graphs into paths of length 3 and triangles

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Destroying longest cycles in graphs and digraphs

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Don't Plan for the Unexpected: Planning Based on Plausibility Models

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Faster Fully-Dynamic minimum spanning forest

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Formalization of Algorithms and Logical Inference Systems in Proof Assistants

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Hvornår skal vi blive bange?
Johansen, M. W. & Bolander, T. 2015 43, Weekendavisen

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Improved time complexity analysis of the Simple Genetic Algorithm

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In Pursuit of Natural Logics for Ontology-Structured Knowledge Bases
Interfacing Agents to Real-Time Strategy Games

Kursusudvikling gennem systematisk evaluering

Learning Actions Models: Qualitative Approach

Load Scheduling in a Cloud Based Massive Video-Storage Environment

Longest Common Extensions in Sublinear Space

Longest Common Extensions in Trees

Meta-Logical Reasoning in Higher-Order Logic
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MMAS Versus Population-Based EA on a Family of Dynamic Fitness Functions

NaDeA: A Natural Deduction Assistant with a Formalization in Isabelle

Nature-Inspired and Energy Efficient Route Planning
Schlichtkrull, A., Christensen, J. B. S., Feld, T. & Hansen, T. B. 2015 *Grøn Dyst - Green Challenge: Student conference on sustainability, the environment and climate technology*. Technical University of Denmark (DTU), p. 70 1 p. 37
On Regular Expression Matching and Deterministic Finite Automata
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On the chromatic number of general Kneser hypergraphs

On the Complexity of Model-Checking Branching and Alternating-Time Temporal Logics in One-Counter Systems

On the Runtime of Randomized Local Search and Simple Evolutionary Algorithms for Dynamic Makespan Scheduling

On the Utility of Island Models in Dynamic Optimization

Plan-Belief Revision in Jason

Population Size vs. Mutation Strength for the (1+λ) EA on OneMax

ProofJudge: Automated Proof Judging Tool for Learning Mathematical Logic

Random Access to Grammar-Compressed Strings and Trees

Runtime analysis of ant colony optimization on dynamic shortest path problems
The AORTA Reasoning Framework - Adding Organizational Reasoning to Agents
Publication: Research › Ph.D. thesis – Annual report year: 2015

The minimum number of minimal codewords in an [n,k]-code and in graphic codes
Publication: Research - peer-review › Journal article – Annual report year: 2014

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Publication: Research › Ph.D. thesis – Annual report year: 2015

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UNI C - A True Internet Pioneer, the Danish Computing Centre for Research and Education
Publication: Research - peer-review › Book chapter – Annual report year: 2016

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A Case for Embedded Natural Logic for Ontological Knowledge Bases
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

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Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

A System for Computing Conceptual Pathways in Bio-medical Text Models
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014
Bioinspired computation in combinatorial optimization - Algorithms and their computational complexity
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Publication: Research - peer-review › Journal article – Annual report year: 2014

The AORTA Architecture: Integrating Organizational Reasoning in Jason
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The AORTA Architecture: Integrating Organizational Reasoning in Jason
The dark side of interval temporal logic: marking the undecidability border

Time–space trade-offs for longest common extensions

Towards optimal packed string matching

A Comparison of Organization-Centered and Agent-Centered Multi-Agent Systems

Alternating-time temporal logic with finite-memory strategies

A method to derive fixed budget results from expected optimisation times

An Offer You Cannot Refuse: Obtaining Efficiency and Fairness in Preplay Negotiation Games with Conditional Offers

A Seligman-Style Tableau System

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Tight Bounds on the Optimization Time of a Randomized Search Heuristic on Linear Functions
Publication: Research - peer-review › Journal article – Annual report year: 2013

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