Algorithms and Logic - Publications - DTU Orbit (27/12/2017)

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: 2016

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: 2016

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
Epistemic Planning: (Dagstuhl Seminar 17231)

Evidence logics with relational evidence
Baltag, A. & Occhipinti, A. 2017 In : Lecture Notes in Computer Science. 10445, p. 17-32

Fast Dynamic Arrays

First-Order Logic According to Harrison

Flexible indexing of repetitive collections

Formalization of Many-Valued Logics

Formalizing a Paracognitive 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

From LZ77 to the run-length encoded burrows-wheeler transform, and back

Graphs with No Induced Five-Vertex Path or Antipath

Immersive Algorithms: Better Visualization with Less Information

Leading the Teacher Team - Balancing Between Formal and Informal Power in Program Leadership
Learning to Act: Qualitative Learning of Deterministic Action Models
Bolander, T. & Gierasimczuk, N. 2017 In : Journal of Logic and Computation. 29 p., exx036
Publication: Research - peer-review › Journal article – Annual report year: 2017

Lempel-Ziv Compression in a Sliding Window
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: 2017

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: 2017

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
Publication: Research - peer-review › Journal article – Annual report year: 2016

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

Roots of the Chromatic Polynomial
Publication: Research › Ph.D. thesis – Annual report year: 2017

Space-Efficient Re-Pair Compression
Publication: Research - peer-review › Conference article – Annual report year: 2017

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

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

The Impact of a Sparse Migration Topology on the Runtime of Island Models in Dynamic Optimization
Publication: Research - peer-review › Journal article – Annual report year: 2017

The Impact of Parametrization on Randomized Search Heuristics
Publication: Research › Ph.D. thesis – 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
Publication: Research - peer-review › Journal article – Annual report year: 2016

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

Upper bounds on the runtime of the univariate marginal distribution algorithm on OneMax
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Graph reconstruction with a betweenness oracle
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

A Framework for Organization-Aware Agents: JAAMAS Extended Abstract
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Analysis of Ant Colony Optimization and Population-Based Evolutionary Algorithms on Dynamic Problems
Publication: Research › Ph.D. thesis – Annual report year: 2016

Announcements to Attentive Agents
Publication: Research - peer-review › Journal article – Annual report year: 2016

Aspects of the Tutte polynomial
Publication: Research › Ph.D. thesis – Annual report year: 2016

A zero-free interval for chromatic polynomials of graphs with 3-leaf spanning trees
Publication: Research - peer-review › Journal article – Annual report year: 2016

Better Eager Than Lazy? How Agent Types Impact the Successfulness of Implicit Coordination
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Bisimulation and expressivity for conditional belief, degrees of belief, and safe belief
Publication: Research - peer-review › Journal article – Annual report year: 2016
**Bookmarks in Grammar-Compressed Strings**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

**Boxed Permutation Pattern Matching.**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

**Capacitated Vehicle Routing with Nonuniform Speeds**
Publication: Research - peer-review › Journal article – Annual report year: 2016

**Capacitated Vehicle Routing with Non-Uniform Speeds**
Publication: Research - peer-review › Journal article – Annual report year: 2016

**Chromatic roots and minor-closed families of graphs**
Publication: Research - peer-review › Journal article – Annual report year: 2016

**Code Generation for a Simple First-Order Prover**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

**Decomposing graphs into a constant number of locally irregular subgraphs**
Publication: Research - peer-review › Journal article – Annual report year: 2016

**Decomposing highly edge-connected graphs into homomorphic copies of a fixed tree**
Publication: Research - peer-review › Journal article – Annual report year: 2016

**Decomposing Oriented Graphs into Six Locally Irregular Oriented Graphs**
Publication: Research - peer-review › Journal article – Annual report year: 2016

**Detecting structural breaks in time series via genetic algorithms**
Publication: Research - peer-review › Journal article – Annual report year: 2016

**Distance labeling schemes for trees**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

**Distributed synthesis in continuous time**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016
Dynamic and approximate pattern matching in 2D
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Dynamic Relative Compression, Dynamic Partial Sums, and Substring Concatenation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Edge-partitioning graphs into regular and locally irregular components
Publication: Research - peer-review › Journal article – Annual report year: 2016

Finger Search in Grammar-Compressed Strings
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Formalization of the Resolution Calculus for First-Order Logic
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Game-based verification and synthesis
Publication: Research › Ph.D. thesis – Annual report year: 2016

Graph Decompositions
Publication: Research › Ph.D. thesis – Annual report year: 2016

Group-colouring, group-connectivity, claw-decompositions, and orientations in 5-edge-connected planar graphs
Publication: Research - peer-review › Journal article – Annual report year: 2016

Guest Editorial: Theory of Evolutionary Computation
Publication: Research - peer-review › Editorial – Annual report year: 2016

Hedetniemi's conjecture for Kneser hypergraphs
Publication: Research - peer-review › Journal article – Annual report year: 2016

How I convinced Isabelle that resolution is complete
Schlichtkrull, A. 2016
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Thomassen, C. 2016 In : Combinatorica. 9 p.
Robustness of Populations in Stochastic Environments
Publication: Research - peer-review › Journal article – Annual report year: 2015

Running a Prover in a Prover - Isabelle as a Meta-Logic
Villadsen, J. 2016
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Selskabet for Naturlærens Udbredelse - naturvidenskabsformidling gennem 191 år
Publication: Research - peer-review › Book chapter – Annual report year: 2016

Sparse Text Indexing in Small Space
Publication: Research - peer-review › Journal article – Annual report year: 2016

Subsequence Automata with Default Transitions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Synthetic Completeness Proofs for Seligman-style Tableau Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

The 3-flow conjecture, factors modulo k, and the 1-2-3-conjecture
Publication: Research - peer-review › Journal article – Annual report year: 2016

The complexity of deciding whether a graph admits an orientation with fixed weak diameter
Bensmail, J., Duuvignau, R. & Krigzizov, S. 2016 In : Discrete Mathematics and Theoretical Computer Science. 17, 3, p. 31-42
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The impact of migration topology on the runtime of island models in dynamic optimization
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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 bangé?
Johansen, M. W. & Bolander, T. 2015 43, Weekendavisen
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Improved time complexity analysis of the Simple Genetic Algorithm
Oliveto, P. S. & Witt, C. 2015 In : Theoretical Computer Science. 605, p. 21-41
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In Pursuit of Natural Logics for Ontology-Structured Knowledge Bases
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MMAS Versus Population-Based EA on a Family of Dynamic Fitness Functions

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On Regular Expression Matching and Deterministic Finite Automata
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Plan-Belief Revision in Jason

Part E: Evolutionary Computation

Plan-Belief Revision in Jason
Population Size vs. Mutation Strength for the \((1+\lambda)\) EA on OneMax
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ProofJudge: Automated Proof Judging Tool for Learning Mathematical Logic
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Runtime analysis of ant colony optimization on dynamic shortest path problems
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UNI C - A True Internet Pioneer, the Danish Computing Centre for Research and Education
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A Case for Embedded Natural Logic for Ontological Knowledge Bases

AORTA: Adding Organizational Reasoning to Agents: Extended abstract

A System for Computing Conceptual Pathways in Bio-medical Text Models

Bioinspired computation in combinatorial optimization - Algorithms and their computational complexity

Colored Range Searching in Linear Space

Compressed Subsequence Matching and Packed Tree Coloring

Concentrated Hitting Times of Randomized Search Heuristics with Variable Drift

Constraints and Language

Constraints in (Computational) Linguistics
Optimal decision procedures for satisfiability in fragments of alternating-time temporal logics
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Optimal Tableaux-Based Decision Procedure for Testing Satisfiability in the Alternating-Time Temporal Logic ATL+
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A Seligman-Style Tableau System

Belief Revision in the GOAL Agent Programming Language

Bioinspired computation in combinatorial optimization - Algorithms and their computational complexity
Neumann, F. & Witt, C. 2013 Proceeding of the fifteenth annual conference companion on Genetic and evolutionary computation. Association for Computing Machinery, p. 567-590

Bisimulation for Single-Agent Plausibility Models

Compact q-gram Profiling of Compressed Strings

Conceptual Pathway Querying of Natural Logic Knowledge Bases from Text Bases

Deciding between Conflicting Influences

Deciding Between Conflicting Influences

Decomposing a graph into bistars
Thomassen, C. 2013 In : Journal of Combinatorial Theory. Series B. 103, 4, p. 504-508

Decomposing graphs into paths of fixed length
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Diagrammatic Reasoning with Classes and Relationships
Dimensions of Organizational Coordination  

Engineering a Multi-Agent System in GOAL  

Evolutionary Algorithms for the Detection of Structural Breaks in Time Series  
Doerr, B., Fischer, P., Hilbert, A. & Witt, C. 2013 Proceeding of the fifteenth annual conference companion on Genetic and evolutionary computation. Association for Computing Machinery, p. 119-120

Fingerprints in Compressed Strings  

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Formalizing Theatrical Performances Using Multi-Agent Organizations  

How to Be Both Rich and Happy: Combining Quantitative and Qualitative Strategic Reasoning about Multi-Player Games  

Hybridizing Evolutionary Algorithms with Opportunistic Local Search  
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On Programming Organization-Aware Agents
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

On the Set of the Numbers of Conjugates of Noncyclic Proper Subgroups of Finite Groups
Publication: Research - peer-review › Journal article – Annual report year: 2013

Planning using dynamic epistemic logic: Correspondence and complexity
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Program Leadership from a Nordic Perspective - Program Leaders’ Power to Influence Their Program
Publication: Research - peer-review › Report chapter – Annual report year: 2013

Reimplementing a Multi-Agent System in Python
Publication: Research - peer-review › Report chapter – Annual report year: 2013

Reimplementing a Multi-Agent System in Python
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Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Strategic games and truly playable effectivity functions
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Tableaux-Based Decision Method for Single-Agent Linear Time Synchronous Temporal Epistemic Logics with Interacting Time and Knowledge

The hardness of the functional orientation 2-color problem

The maximum number of minimal codewords in an $[n, k]$-code

Tight Bounds on the Optimization Time of a Randomized Search Heuristic on Linear Functions

Time-Space Trade-Offs for the Longest Common Substring Problem

Tree compression with top trees

Undecidability in Epistemic Planning

When do evolutionary algorithms optimize separable functions in parallel?