Publications

Computing Probabilistic Bisimilarity Distances for Probabilistic Automata

Quantitative Equational Reasoning

Converging from branching to linear metrics on Markov chains
Bacci, G., Bacci, G., Larsen, K. G. & Mardare, R., Jan 2019, In: Mathematical Structures in Computer Science. 29, Special Issue 1, p. 3-37

Computing Probabilistic Bisimilarity Distances for Probabilistic Automata

Reasoning About Bounds in Weighted Transition Systems

Free complete Wasserstein algebras

A Hemimetric Extension of Simulation for Semi-Markov Decision Processes

An Algebraic Theory of Markov Processes

Boolean-valued semantics for the stochastic Lambda-calculus
Complete Axiomatization for the Total Variation Distance of Markov Chains

Weighted branching systems: Behavioural equivalence, behavioural distance, and their logical characterisations

A complete quantitative deduction system for the bisimilarity distance on markov chains

On decidability of recursive weighted logics

Riesz Modal logic for Markov processes

Timed Comparisons of Semi-Markov Processes

On the axiomatizability of quantitative algebras

Unrestricted stone duality for Markov processes

A Complete Quantitative Deduction System for the Bisimilarity Distance on Markov Chains

Models, Algorithms, Logics and Tools: Essays Dedicated to Kim Guldstrand Larsen on the Occasion of His 60th Birthday

On-the-Fly Computation of Bisimilarity Distances

On the Metric-Based Approximate Minimization of Markov Chains

A Complete Approximation Theory for Weighted Transition Systems
Complete Axiomatization for the Bisimilarity Distance on Markov Chains

Probabilistic Mu-Calculus: Decidability and Complete Axiomatization

Quantitative Algebraic Reasoning

Alternation-Free Weighted Mu-Calculus: Decidability and Completeness

Parametric Verification of Weighted Systems

Concurrent weighted logic

Converging from Branching to Linear Metrics on Markov Chains

Decidability and Expressiveness of Recursive Weighted Logic

On the Total Variation Distance of Semi-Markov Chains

Complete proof systems for weighted modal logic

A decidable recursive logic for weighted transition systems

A Decidable Recursive Logic for Weighted Transition Systems
Adequacy and Complete Axiomatization for Timed Modal Logic

A Metrized Duality Theorem for Markov Processes

Bisimulation on Markov Processes over Arbitrary Measurable Spaces

Continuity Properties of Distances for Markov Processes

The Behavior of Probabilistic Systems: From Equivalences to Behavioral Distances

The measurable space of stochastic processes

Computing Behavioral Distances, Compositionally

On-the-Fly Exact Computation of Bisimilarity Distances

Stochastic Pi-calculus Revisited

Stone Duality for Markov Processes

Strong Completeness for Markovian Logics
The BisimDist Library: Efficient Computation of Bisimilarity Distances for Markovian Models

Continuous Markovian Logics: Axiomatization and Quantified Metatheory

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A Metric Analogue of Stone Duality for Markov Processes

Combining Epistemic Logic and Hennessy-Milner Logic

Decidability of Modular Logics for Concurrency

Parameterized Metatheory for Continuous Markovian Logic

Stone Duality for Markov Processes

Taking It to the Limit: Approximate Reasoning for Markov Processes

Modular Markovian logic

An Observer-Based De-Quantisation of Deutsch's Algorithm

Continuous Markovian Logic - From Complete Axiomatization to the Metric Space of Formulas

Logical Anaysis of Complex Concurrent Systems: Dynamic-Epistemic Spatial Logics for Process Algebras
The Measurable Space of Stochastic Processes

Analysing Biochemical Oscillations through Probabilistic Model Checking

A Complete Axiomatic System for Process-based Spatial Logic

A Logical Characterization of Robustness, Mutants and Species in Colonies of Synchronizing Agents

A Multiset-Based Model of Synchronizing Agents: Computability and Robustness

A Calculus for Modelling, Simulating and Analysing Compartmentalized Biological Systems

BetaWB - A language for modular representation of biological systems

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Colonies of synchronizing agents: An abstract model of intracellular and intercellular processes

Observing Distributed Computation. A Dynamic-Epistemic Approach

Decidable extensions of Hennessy-Milner Logic

Playing with partial knowledge in membrane systems: A logical approach

Logical analysis of biological systems

Model checking biological systems described using ambient calculus

A logical approach to security in the context of Ambient Calculus