Publications

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

Riesz Modal logic for Markov processes
Timed Comparisons of Semi-Markov Processes

On the axiomatizability of quantitative algebras

Unrestricted Stone duality for Markov processes

Converging from branching to linear metrics on Markov chains

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

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
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 Analysis 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

Bio-Logics
Mardare, R. I., 2007, Grigore C. Moisil and His Followers in the Field of Theoretical Computer Science. Romanian Academy of Science

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