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Publications  
Reasoning About Bounds in Weighted Transition Systems  

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 Gulstrand 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-Calcus: Decidability and Complete Axiomatization

Quantitative Algebraic Reasoning

Alternation-Free Weighted Mu-Calcus: 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

Parametric Verification of Weighted Systems

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

Probabilistic logic and the metric space of logical formulas
Mardare, R. I., Sep 2012, In : Bulletin of Symbolic Logic. 18, 3, p. 455

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 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

Projects
Approximate Reasoning for Stochastic Markovian Systems
Mardare, R. & Larsen, K. G.
01/11/2015 → 31/10/2019

Modular Markovian Logics for Analysis of Stochastic Concurrent Systems
Mardare, R.
01/10/2010 → 30/09/2012

Activities
Introduction to Logic and Model Theory
Radu Iulian Mardare (Lecturer)
Nov 2011 → Dec 2011

KiMfest 2017 (Event)
Luca Aceto (Editor), Giorgio Bacci (Editor), Giovanni Bacci (Editor), Anna Ingolfsdottir (Editor), Axel Legay (Editor), Radu Iulian Mardare (Editor)
19 Aug 2017 → 20 Aug 2017
KiMfest (Event)
Luca Aceto (Editor), Giorgio Bacci (Editor), Giovanni Bacci (Editor), Anna Ingolfsdottir (Editor), Axel Legay (Editor), Radu Mardare (Editor)
19 Aug 2017 → 20 Aug 2017

Syntax and Semantics for UCN
Radu Iulian Mardare (Lecturer)
Jan 2013 → Feb 2013

Truth, Provability and Metamathematics
Radu Iulian Mardare (Lecturer)
Nov 2012

Press clippings
Eliteforsker gør indviklede systemer lettere at gennemskue
Radu Mardare
26/01/2011
1 item of media coverage

Millioner til smarte diagnoser og anden fri forskning
Mads Græsbøll Christensen, Radu Mardare, Heidi Houlberg Salomonsen, Michael Toft Overgaard, Johannes Jan Struijk & Søren Risom Kristensen
11/06/2015
1 item of media coverage

Millioner til smarte diagnoser og anden fri forskning
Mads Græsbøll Christensen, Radu Mardare, Heidi Houlberg Salomonsen, Michael Toft Overgaard, Johannes Jan Struijk, Arne Jensen & Søren Risom Kristensen
11/06/2015
5 items of media coverage