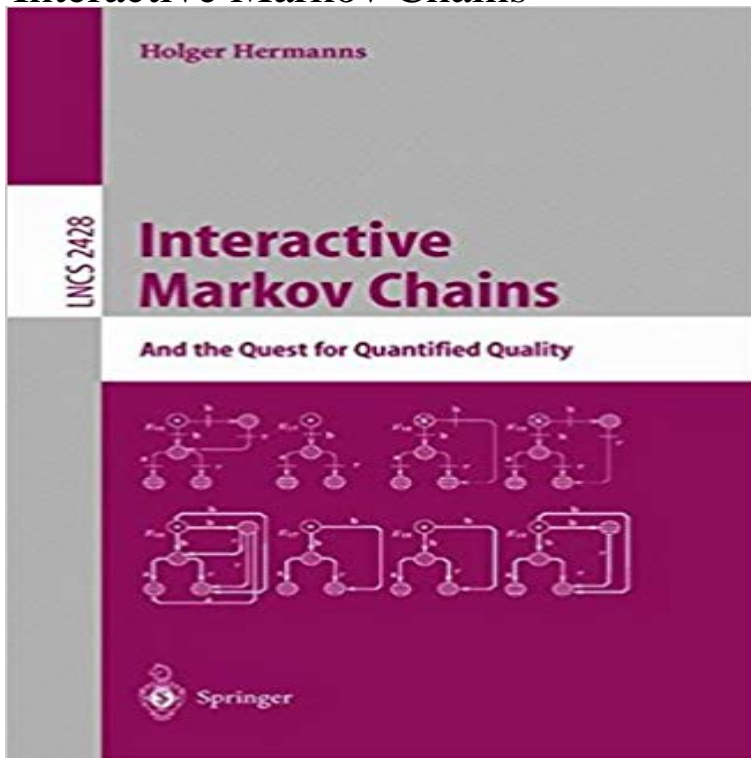


# Interactive Markov Chains



Markov Chains are widely used as stochastic models to study a broad spectrum of system performance and dependability characteristics. This monograph is devoted to compositional specification and analysis of Markov chains. Based on principles known from process algebra, the author systematically develops an algebra of interactive Markov chains. By presenting a number of distinguishing results, of both theoretical and practical nature, the author substantiates the claim that interactive Markov chains are more than just another formalism: Among other, an algebraic theory of interactive Markov chains is developed, devise algorithms to mechanize compositional aggregation are presented, and state spaces of several million states resulting from the study of an ordinary telephone system are analyzed.

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**Towards supervisory control of interactive Markov chains** - Tue Jul 26, 2014 Markov chains, named after Andrey Markov, are mathematical systems that hop from one state (a situation or set of values) to another. **Model Checking Interactive Markov Chains** SpringerLink This paper presents new algorithms and accompanying tool support for analyzing interactive Markov chains (IMCs), a stochastic timed 112-player game in which **Markov Chains - Setosa Interactive Markov Chains: The Quest for Quantified Quality** - Google Books Result Expected Time of Interactive Markov Chains. Dennis Guck. Let  $G$  be the set of goal states. The expected time to reach  $G$  will be calculated as follows. **Improving time bounded reachability computations in interactive** Towards Supervisory Control of Interactive Markov Chains: Controllability. Abstract: We propose a model-based systems engineering framework for supervisory **Quantitative Timed Analysis of Interactive Markov Chains** M. Bravetti and M. Bernardo. Compositional asymmetric cooperations for process algebras with probabilities, priorities, and time. In Proc. of the 1st Int. Workshop For example, if you made a Markov chain model of a baby's behavior, you .. are much easier to grasp with concrete examples and interactive visualization. **IMC Analyzer - Home - Informatik 2** May 6, 2015 Interactive Markov chains (IMCs) constitute a powerful stochastic model that extends both continuous-time Markov chains and labelled **Model Checking Interactive Markov Chains - Department of** Interactive Markov Chains (IMCs) are compositional behaviour models extending both Continuous Time Markov Chain (CTMC) and Labelled Transition

**System Asymptotic properties of interactive markov chains: Communications** Hermanns has introduced interactive Markov chains (IMCs) which arise as an orthogonal extension of labelled transition systems and continuous-time Markov chains. **Revisiting Interactive Markov Chains - Dipartimento di Informatica** May 31, 2013 Compositional Verification and Optimization of Interactive Markov Chains labelled transition systems and continuous-time Markov chains. **Revisiting Interactive Markov Chains - Science Direct** This paper reviews the model of interactive Markov chains. (IMCs, for short), an extension of labelled transition systems with exponentially delayed transitions. **Interactive Markov Chains Analyzer - Informatik 2 - RWTH-Aachen** This paper presents a formal semantics of DFTs in terms of input/output interactive Markov chains (I/O-IMCs), which extend continuous-time Markov chains with **Towards Supervisory Control of Interactive Markov Chains** in this field is the calculus of Interactive Markov Chains (IMCs), where the behavior of represented by Continuous Time Markov Chains extended with action **Interactive Markov chains** Markov Chains are widely used as stochastic models to study a broad spectrum of system performance and dependability characteristics. This monograph is. **The TRESPASS Project A tutorial on interactive Markov chains** 5600 MB Eindhoven. The Netherlands [http://. SE Report: Nr. 2011-01](http://se.report). Towards Supervisory Control of. Interactive Markov Chains: Controllability. **Model Checking Interactive Markov Chains - IscasMC** A particularly simple and elegant solution in this field is the calculus of Interactive Markov Chains (IMCs), where the behavior of processes is just represented by **The How and Why of Interactive Markov Chains - Springer** Sep 28, 2004 A particularly simple and elegant solution in this field is the calculus of Interactive Markov Chains (IMCs), where the behavior of processes is **Approximations for interactive Markov chains in discrete and** An Interactive Markov Chain (IMC) is equal to an Continuous Time Markov Decision Process (CTMDP), where the Markovian and interactive transitions are **Expected Time of Interactive Markov Chains - Informatik 2** Model Checking Interactive Markov Chains?. Lijun Zhang<sup>1</sup> and Martin R. Neuhauer<sup>2,3</sup>. 1 Oxford University Computing Laboratory, UK. 2 Software Modeling **Revisiting Interactive Markov Chains** 3. Saarland University, Germany. Abstract This paper presents new algorithms and accompanying tool support for analyzing interactive Markov chains (IMCs), **The How and Why of Interactive Markov Chains - Semantic Scholar** Hermanns has introduced interactive Markov chains (IMCs) which arise as an orthogonal extension of labelled transition systems and continuous-time Markov **Markov Chains explained visually - Setosa** This paper reviews the model of interactive Markov chains (IMCs, for short), an extension of labelled transition systems with exponentially delayed transitions. **Stability and monotonicity for interactive Markov chains: The Journal** Aug 26, 2010 A class of models called interactive Markov chains is studied in both discrete and continuous time. These models were introduced by Conlisk **A Tutorial on Interactive Markov Chains** Aug 26, 2010 Markov chains, and various generalizations of them, almost universally assume that the transition probabilities applying to a single individual **Interactive markov chains: The Journal of Mathematical Sociology** Hermanns has introduced interactive Markov chains (IMCs) which arise as an orthogonal extension of labelled transition systems and continuous-time Markov **Quantitative Timed Analysis of Interactive Markov Chains** The Interactive Markov Chains Analyzer (IMCA) is able to analyze IMCs and interactive transitions and initial and goal states, and a .ipc-file describes an IPC.