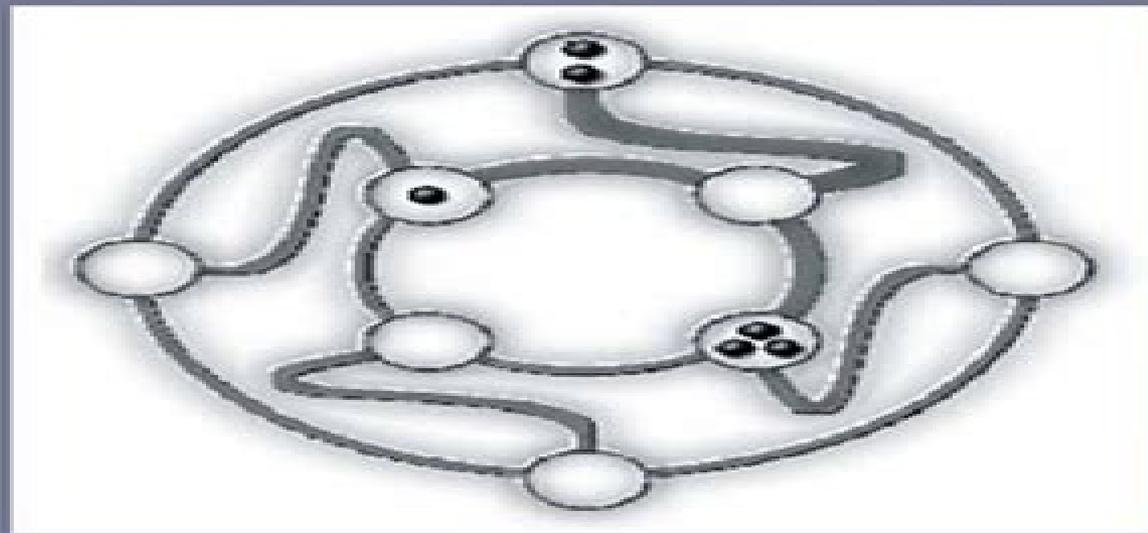


MONOGRAPHS IN COMPUTER SCIENCE

ABSTRACTION, REFINEMENT AND PROOF FOR PROBABILISTIC SYSTEMS

Annabelle McIver
Carroll Morgan



 Springer

Abstraction Refinement And Proof For Probabilistic Systems

Lauren Gardner



Abstraction Refinement And Proof For Probabilistic Systems:

Abstraction, Refinement and Proof for Probabilistic Systems Annabelle McIver, Carroll Morgan, 2005 Illustrates by example the typical steps necessary in computer science to build a mathematical model of any programming paradigm Presents results of a large and integrated body of research in the area of quantitative program logics

Abstraction, Refinement and Proof for Probabilistic Systems Annabelle McIver, Carroll Morgan, 2005 Provides an integrated coverage of random probabilistic algorithms assertion based program reasoning and refinement programming models providing a focused survey on probabilistic program semantics This book illustrates by examples the typical steps necessary to build a mathematical model of any programming paradigm

FM 2009: Formal Methods Ana Cavalcanti, Dennis Dams, 2009-11-04 th FM 2009 the 16 International Symposium on Formal Methods marked the 10th anniversary of the First World Congress on Formal Methods that was held in 1999 in Toulouse France We wished to celebrate this by advertising and organizing FM 2009 as the Second World Congress in the FM series aiming to once again bring together the formal methods communities from all over the world The statistics displayed in the table on the next page include the number of countries represented by the Programme Committee members as well as of the authors of submitted and accepted papers Novel this year was a special track on tools and industrial applications Submissions of papers on these topics were especially encouraged but not given any special treatment It was just as hard to get a special track paper accepted as any other paper What we did promote however was a discussion of how originality contribution and soundness should be judged for these papers The following questions were used by our Programme Committee

Computer Aided Verification Werner Damm, Holger Hermanns, 2007-08-30 This book constitutes the refereed proceedings of the 19th International Conference on Computer Aided Verification Thirty three state of the technology papers are presented together with fourteen tool papers three invited papers and four invited tutorials All the current issues in computer aided verification and model checking from foundational and methodological issues to the evaluation of major tools and systems are addressed

Formal Methods and Software Engineering Michael Butler, Michael G. Hinchey, Maria M. Larrondo-Petrie, 2007-10-27 This book constitutes the refereed proceedings of the 9th International Conference on Formal Engineering Methods ICFEM 2007 held in Boca Raton Florida USA November 14 15 2007 The 19 revised full papers together with two invited talks presented were carefully reviewed and selected from 38 submissions The papers address all current issues in formal methods and their applications in software engineering The papers are organized in topical sections

Validation of Stochastic Systems Christel Baier, Boudewijn R. Haverkort, Holger Hermanns, Joost-Pieter Katoen, Markus Siegle, 2004-08-11 This tutorial volume presents a coherent and well balanced introduction to the validation of stochastic systems it is based on a GI Dagstuhl research seminar Supervised by the seminar organizers and volume editors established researchers in the area as well as graduate students put together a collection of articles competently covering all relevant issues in the area The lectures are organized in topical sections on

modeling stochastic systems model checking of stochastic systems representing large state spaces deductive verification of stochastic systems Interval-based Abstraction Refinement Pritam Roy,2009 Proceedings of the ... International Workshop on Formal Methods for Industrial Critical Systems ,2005 **Proceedings** ,2005 **FME ...** ,2005 Mathematical Reviews ,2008 **American Book Publishing Record** ,2003 **Formal Methods - Pacific 97** Australasian Refinement Workshop,New Zealand Formal Program Development Colloquium,1997-12 Formal Methods Pacific 97 is an umbrella conference incorporating the 6th Australasian Refinement Workshop and the 3rd New Zealand Formal Program Development Colloquium The conference provided a forum for discussion of current research on mathematicallybased techniques for design and development of computer systems especially formal and or rigorous methods for developing executable programs from abstract specifications tool support for formal software development and practical experience with formal methods Topics also include software specification and verification hardware specification and verification and specification and development of real time and concurrent systems The refereed papers included in these proceedings present significant contributions to current research in formal software development within Australasia along with several contributions from other parts of the world The conference also included informal presentations describing work in progress abstracts only for these are included **Three-valued Abstraction for Probabilistic Systems** Joost-Pieter Katoen,Technische Hochschule Aachen,2007 **Using Automatic Abstraction for Problem-solving and Learning** Amy Unruh,1993 Refined Probabilistic Abstraction Björn Wachter,2011 Computer networks and embedded systems are ubiquitous and critical parts of our daily life Therefore performance and reliability guarantees for these systems are crucial To this end versatile probabilistic modelling and analysis techniques have been developed However existing probabilistic analysis methods are inherently limited to small systems This dissertation introduces a new probabilistic analysis method that scales to large and even infinite systems which are far out of reach of previous methods The key idea is to approximate a given system by a smaller abstraction which is refined automatically until sufficient precision has been achieved The thesis discusses the various foundational and practical challenges involved in developing this method as well as its effectiveness in practice Formal Techniques in Real-time and Fault-tolerant Systems ,2000 Tools and Algorithms for the Construction and Analysis of Systems ,2001 **Dissertation Abstracts International** ,2007 Library & Information Science Abstracts ,1994

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Abstraction Refinement And Proof For Probabilistic Systems Introduction

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