

Title / Abstract

- **High-level overview**

Introduction

- **Context and the broader impacts of your research**
- **What is the main idea that ties everything together?**

**Which papers /
What work?**

- **Which papers will you include in your thesis?**
- **What order will they appear in?**
- **Will they be grouped into larger chapters?**

Plan / Timeline

- **Objectives**
- **Methods**
- **Preliminary results**
- **Anticipated challenges and mitigations**
- **Concrete deliverables and expected completion times**

References

Phd Thesis Proposal Mit

Tan Yang Meng



Phd Thesis Proposal Mit:

Formal Specification Techniques for Engineering Modular C Programs Tan Yang Meng, 2012-12-06 Software is difficult to develop maintain and reuse Two factors that contribute to this difficulty are the lack of modular design and good program documentation The first makes software changes more difficult to implement The second makes programs more difficult to understand and to maintain Formal Specification Techniques for Engineering Modular C Programs describes a novel approach to promoting program modularity The book presents a formal specification language that promotes software modularity through the use of abstract data types even though the underlying programming language may not have such support This language is structured to allow useful information to be extracted from a specification which is then used to perform consistency checks between the specification and its implementation Formal Specification Techniques for Engineering Modular C Programs also describes a specification driven software re engineering process model for improving existing programs The aim of this process is to make existing programs easier to maintain and reuse while keeping their essential functionalities unchanged Audience Suitable as a secondary text for graduate level courses in software engineering and as a reference for researchers and practitioners in industry

[First International Workshop on Larch](#) Ursula Martin, Jeannette M. Wing, 2013-11-11 The papers in this volume were presented at the First International Workshop on Larch held at MIT Endicott House near Boston on 13 15 July 1992 Larch is a family of formal specification languages and tools and this workshop was a forum for those who have designed the Larch languages built tool support for them particularly the Larch Prover and used them to specify and reason about software and hardware systems The Larch Project started in 1980 led by John Guttag at MIT and James Horning then at Xerox Palo Alto Research Center and now at Digital Equipment Corporation Systems Research Center DEC SRC Major applications have included VLSI circuit synthesis medical device communications compiler development and concurrent systems based on Lamport s TLA as well as several applications to classical theorem proving and algebraic specification Larch supports a two tiered approach to specifying software and hardware modules One tier of a specification is written in the Larch Shared Language LSL An LSL specification describes mathematical abstractions such as sets relations and algebras its semantics is defined in terms of first order theories The second tier is written in a Larch interface language one designed for a specific programming language An interface specification describes the effects of individual modules e g state changes resource allocation and exceptions its semantics is defined in terms of first order predicates over two states where state is defined in terms of the programming language s notion of state Thus LSL is programming language independent a Larch interface language is programming language dependent

Virtual Reality Systems R. A. Earnshaw, 2014-06-28 This volume brings together a number of the leading practitioners and exponents in the field of virtual reality VR and explores some of the main issues in the area and its associated hardware and software technology The main components of the current generation of virtual reality systems are

outlined and major developments of VR systems are discussed SPECIAL FEATURES This volume brings together some of the leading practitioners and exponents in the field of VR and explores some of the main issues in the area and its associated hardware and software technology The main components of the current generation of virtual reality systems are outlined and major developments of VR systems are discussed focussing on key areas such as hardware software techniques application interfaces and ethical issues The book contains a comprehensive bibliography enabling the reader to follow up particular areas of specialism It contains 16 pages of colour plates

Laboratory for Computer Science Progress Report Massachusetts Institute of Technology. Laboratory for Computer Science,1995

The Figure of Knowledge Sebastiaan Loosen,Rajesh Heynickx,Hilde Heynen,2020-10-01 It is a major challenge to write the history of post WWII architectural theory without boiling it down to a few defining paradigms An impressive anthologising effort during the 1990s charted architectural theory mostly via the various theoretical frameworks employed such as critical theory critical regionalism deconstructivism and pragmatism Yet the intellectual contours of what constitutes architectural theory have been constantly in flux It is therefore paramount to ask what kind of knowledge has become important in the recent history of architectural theory and how the resulting figure of knowledge sets the conditions for the actual arguments made The contributions in this volume focus on institutional geographical rhetorical and other conditioning factors They thus screen the unspoken rules of engagement that postwar architectural theory ascribed to

Proceedings ,2004

Robot Arm Control Exploiting Natural Dynamics Matthew M. Williamson,1999 This thesis presents an approach to robot arm control exploiting natural dynamics The approach consists of using a compliant arm whose joints are controlled with simple non linear oscillators The arm has special actuators which makes it robust to collisions and gives it a smooth compliant motion The oscillators produce rhythmic commands of the joints of the arm and feedback of the joint motions is used to modify the oscillator behavior The oscillators enable the resonant properties of the arm to be exploited to perform a variety of rhythmic and discrete tasks These tasks include tuning into the resonant frequencies of the arm itself juggling turning cranks playing with a Slinky toy sawing wood throwing balls hammering nails and drumming For most of these tasks the controllers at each joint are completely independent being coupled by mechanical coupling through the physical arm of the robot The thesis shows that this mechanical coupling allows the oscillators to automatically adjust their commands to be appropriate for the arm dynamics and the task This coordination is robust to large changes in the oscillator parameters and large changes in the dynamic properties of the arm As well as providing a wealth of experimental data to support this approach the thesis also provides a range of analysis tools both approximate and exact These can be used to understand and predict the behavior of current implementations and design new ones These analysis techniques improve the value of oscillator solutions The results in the thesis suggest that the general approach of exploiting natural dynamics is a powerful method for obtaining coordinated dynamic behavior of robot arms

Robot Teams Tucker Balch,Lynne E. Parker,2002-04-17 This is a comprehensive volume

on robot teams that will be the standard reference on multi robot systems The volume provides not only the essentials of multi agent robotics theory but also descriptions of exemplary implemented systems demonstrating the key concepts of multi robot research Information is presented in a descriptive manner and augmented with detailed mathematical formulations photos diagrams and source code examples

Constructionism Idit Harel, Seymour Papert, 1991 In 1985 the Media Lab was created at MIT to advance the idea that computation would give rise to a new science of expressive media Within the media lab the Epistemology and Learning group extends the traditional definition of media by treating as expressive media materials with which children play and learn The Group s work follows a paradigm for learning research called Constructionism Several of the chapters directly address the theoretical formulation of Constructionism and others describe experimental studies which enrich and confirm different aspects of the idea Thus this volume can be taken as the most extensive and definitive statement to date of this approach to media and education research and practice This book is structured around four major themes learning through designing and programming epistemological styles in constructionist learning children and cybernetics and video as a research tool for exploring and documenting constructionist environments

Proceedings of the Seventh International Joint Conference on Artificial Intelligence Ann Drinan, 1981 Image Handling and Reproduction Systems Integration Walter Bender, Wil Plouffe, 1991

Verification, Validation and Testing in Software Engineering Aristides Dasso, Ana Funes, 2007-01-01 This book explores different applications in V V that spawn many areas of software development including real time applications where V V techniques are required providing in all cases examples of the applications Provided by publisher *Proceedings of the ... International Joint Conference on Artificial Intelligence* ,1985

MIT Working Papers in Linguistics ,2001 *Constructionist Learning* Idit Harel, 1990

Readings in Qualitative Reasoning about Physical Systems Daniel S. Weld, Johan De Kleer, 1990 The ability to reason qualitatively about physical systems is important to understanding and interacting with the world for both humans and intelligent machines Accordingly this study has become an important subject of research in the artificial intelligence and cognitive science communities The goal of qualitative physics as the field is sometimes known is to capture both the commonsense knowledge of the person on the street and the tacit knowledge underlying the quantitative knowledge used by engineers and scientists Readings in Qualitative Reasoning About Physical Systems is an introduction and source book for this dynamic area presenting reprints of key papers chosen by the editors and a group of expert referees The editors present introductions discussing the context and significance of each group of articles as well as providing pointers to the rest of the literature In addition the volume includes several original papers that are not available elsewhere

Artificial Intelligence in Medicine ,1997

Strength or Accuracy: Credit Assignment in Learning Classifier Systems Tim Kovacs, 2012-12-06 Classifier systems are an intriguing approach to a broad range of machine learning problems based on automated generation and evaluation of condition action rules In reinforcement learning tasks they simultaneously address

the two major problems of learning a policy and generalising over it and related objects such as value functions. Despite over 20 years of research however classifier systems have met with mixed success for reasons which were often unclear. Finally in 1995 Stewart Wilson claimed a long awaited breakthrough with his XCS system which differs from earlier classifier systems in a number of respects the most significant of which is the way in which it calculates the value of rules for use by the rule generation system. Specifically XCS like most classifier systems employs a genetic algorithm for rule generation and the way in which it calculates rule fitness differs from earlier systems. Wilson described XCS as an accuracy based classifier system and earlier systems as strength based. The two differ in that in strength based systems the fitness of a rule is proportional to the return/reward payoff it receives whereas in XCS it is a function of the accuracy with which return is predicted. The difference is thus one of credit assignment that is of how a rule's contribution to the system's performance is estimated. XCS is a Q learning system in fact it is a proper generalisation of tabular Q learning in which rules aggregate states and actions. In XCS as in other Q learners Q values are used to weight action selection.

Multimodal Multi Paradigm Interface for Graphics Editing and Creation Andre' D. Milota, 2002 **Simulation - Past, Present and Future** Richard Zobel, 1998

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