

PRINCIPLES OF
OBJECT-ORIENTED
MODELING AND
SIMULATION
WITH MODELICA 2.1



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Huangqi Zhang



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Object Oriented Simulation José M. Garrido,2009-05-28 Object Oriented Simulation will qualify as a valuable resource to students and accomplished professionals and researchers alike as it provides an extensive yet comprehensible introduction to the basic principles of object oriented modeling design and implementation of simulation models Key features include an introduction to modern commercial graphical simulation and animation software accessible breakdown of OOSimL language constructs through various programming principles and extensive tutorial materials ideal for undergraduate classroom use

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Tools and Methods for Analysis, Debugging, and Performance Improvement of Equation-Based Models Martin Sjölund,2015-05-11 Equation based object oriented EOO modeling languages such as Modelica provide a convenient declarative method for describing models of cyber physical systems Because of the ease of use of EOO languages large and complex models can be built with limited effort However current state of the art tools do not provide the user with enough information when errors appear or simulation results are wrong It is of paramount importance that such tools should give the user enough information to correct errors or understand where the problems that lead to wrong simulation results are located However understanding the model translation process of an EOO compiler is a daunting task that not only requires knowledge of the numerical algorithms that the tool executes during simulation but also the complex symbolic transformations being performed As part of this work methods have been developed and explored where the EOO tool an enhanced Modelica compiler records the transformations during the translation process in order to provide better diagnostics explanations and analysis This information is used to generate

better error messages during translation It is also used to provide better debugging for a simulation that produces unexpected results or where numerical methods fail Meeting deadlines is particularly important for real time applications It is usually essential to identify possible bottlenecks and either simplify the model or give hints to the compiler that enable it to generate faster code When profiling and measuring execution times of parts of the model the recorded information can also be used to find out why a particular system model executes slowly Combined with debugging information it is possible to find out why this system of equations is slow to solve which helps understanding what can be done to simplify the model A tool with a graphical user interface has been developed to make debugging and performance profiling easier Both debugging and profiling have been combined into a single view so that performance metrics are mapped to equations which are mapped to debugging information The algorithmic part of Modelica was extended with meta modeling constructs MetaModelica for language modeling In this context a quite general approach to debugging and compilation from extended Modelica to C code was developed That makes it possible to use the same executable format for simulation executables as for compiler bootstrapping when the compiler written in MetaModelica compiles itself Finally a method and tool prototype suitable for speeding up simulations has been developed It works by partitioning the model at appropriate places and compiling a simulation executable for a suitable parallel platform

20th ISPE International Conference on Concurrent Engineering C. Bil, J. Mo, J. Stjepandić, 2013-09-12 As a concept Concurrent Engineering CE initiates processes with the goal of improving product quality production efficiency and overall customer satisfaction Services are becoming increasingly important to the economy with more than 60% of the GDP in Japan the USA Germany and Russia deriving from service based activities The definition of a product has evolved from the manufacturing and supplying of goods only to providing goods with added value to eventually promoting a complete service business solution with support from introduction into service and from operations to decommissioning This book presents the proceedings of the 20th ISPE International Conference on Concurrent Engineering held in Melbourne Australia in September 2013 The conference had as its theme Product and Service Engineering in a Dynamic World and the papers explore research results new concepts and insights covering a number of topics including service engineering cloud computing and digital manufacturing knowledge based engineering and sustainability in concurrent engineering

Fundamentals of Agricultural and Field Robotics Manoj Karkee, Qin Zhang, 2021-07-27 Over the past century mechanization has been an important means for optimizing resource utilization improving worker health and safety and reducing labor requirements in farming while increasing productivity and quality of 4F Food Fuel Fiber Feed Recognizing this contribution agricultural mechanization was considered as one of the top ten engineering achievements of 20th century by the National Academy of Engineering Accordingly farming communities have adopted increasing level of automation and robotics to further improve the precision management of crops including input resources increase productivity and reduce farm labor beyond what has been possible with conventional mechanization

technologies It is more important than ever to continue to develop and adopt novel automation and robotic solutions into farming so that some of the most complex agricultural tasks which require huge amount of seasonal labor such as fruit and vegetable harvesting could be automated while meeting the rapidly increasing need for 4F In addition continual innovation in and adoption of agricultural automation and robotic technologies is essential to minimize the use of depleting resources including water minerals and other chemicals so that sufficient amount of safe and healthy food can be produced for current generation while not compromising the potential for the future generation This book aims at presenting the fundamental principles of various aspects of automation and robotics as they relate to production agriculture the branch of agriculture dealing with farming operations from field preparation to seeding to harvesting and field logistics The building blocks of agricultural automation and robotics that are discussed in the book include sensing and machine vision control guidance manipulation and end effector technologies The fundamentals and operating principles of these technologies are explained with examples from cutting edge research and development currently going on around the world This book brings together scientists engineers students and professionals working in these and related technologies to present their latest examples of agricultural automation and robotics research innovation and development while explaining the fundamentals of the technology The book therefore benefits those who wish to develop novel agricultural engineering solutions and or to adopt them in the future

Modular Systems for Energy Usage Management Yatish T. Shah, 2020-01-22 a very unique book that integrates benefits of modular systems for enhanced sustainability to meet the global challenges of rapid and sometimes uncontrolled industrialization in the 21st century Pinakin Patel T2M Global This book examines the role of the modular approach for the back end of the energy industry energy usage management It outlines the use of modular approaches for the processes used to improve energy conservation and efficiency which are preludes to the prudent use of energy Since energy consumption is conventionally broken down into four sectors residential transportation industrial and commercial the discussions on energy usage management are also broken down into these four sectors in the book The book examines the use of modular systems for five application areas that cover the sectors described above buildings vehicles computers and electrical electronic products district heating and wastewater treatment and desalination This book also discusses the use of a modular approach for energy storage and transportation Finally it describes how the modular approach facilitates bottom up top down and hybrid simulation and modeling of the energy systems from various scientific and socioeconomic perspectives Aimed at industry professionals and researchers involved in the energy industry this book illustrates in detail with the help of concrete industrial examples how a modular approach can facilitate management of energy usage

Advances in raw material industries for sustainable development goals Vladimir Litvinenko, 2020-12-29 *Advances in Raw Material Industries for Sustainable Development Goals* presents the results of joint scientific research conducted in the context of the Russian German Raw Materials Forum Today Russia and Germany are exploring various forms of

cooperation in the field of mining geology mineralogy mechanical engineering and energy Russia and Germany are equally interested in expanding cooperation and modernizing the economy in terms of sustainable development The main theme of this article collection is connected with existing business ventures and ideas from both Russia and Germany In this book the authors regard complex processes in mining industry from various points of view including modern technologies in prospecting exploration and development of mineral resources progressive methods of natural and industrial mineral raw materials processing energy technologies and digital technologies for sustainable development cutting edge technologies and innovations in the oil and gas industry Working with young researchers supporting their individual professional development and creating conditions for their mobility and scientific cooperation are essential parts of Russian German Raw Materials Forum founded in Dresden 13 years ago This collection represents both willingness of young researchers to be involved in large scale international projects like Russian German Raw Material Forum and the results of their long and thorough work in the promising areas of cooperation between Russia and Germany

Object-oriented Modeling and Design James Rumbaugh,1991 This text applies object oriented techniques to the entire software development cycle

AIAA Computing in Aerospace ... Conference , *Modeling and Simulation* ,1990 **Proceedings** ,2002 *Proceedings of the ... Winter Simulation Conference* ,1995 *Large Scale Systems: Theory and Applications* 1998 N.T. Koussoulas,P.P. Groumpos,1999-06-11 As the 21st century nears there is a need to seriously reconsider many aspects of modeling and controlling large complex man made systems Integration of technologies and functions requires deep interdisciplinary expertise and technical breadth for successful implementation Large scale systems theory can play a central role in this effort and it is a strongly held belief that this approach will continue to be of major importance in the future

International Conference on Universal Personal Communications ,1994 *Proceedings of the ASME Manufacturing Engineering Division and the ASME Textile Engineering Division --2006* ,2007 **Simulation - Past, Present and Future** Richard Zobel,1998 **Modelling and Simulation 1992** John Stephenson,1992 *Practical Object-oriented Development with UML and Java* Richard C. Lee,William M. Tepfenhart,2002 This practical book tells readers how to actually build object oriented models using UML notation and how to implement these models using Java The authors introduce all of the basic fundamentals necessary to start applying and understanding the object oriented paradigm without having to be an expert in computer science or advanced mathematics It can help the reader to make the right decisions to meet their individual business needs Using cases recommended approach scenarios and examples this clearly written book covers a multitude of topics managing complexity principles of Object Orientation specification models current techniques behaviors relationships rules design Java background and fundamentals multi tasking JAR files security Swing Applets class and interface internationalization and implementing generalization and specialization For professional software analysts and developers who work on large systems and others in the field of computer science

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