

Download free Building information modeling framework for structural design (PDF)

Eclipse Modeling Framework Building Information Modeling A New Conceptual Modeling Framework for a Distributed Object-based Industrial Simulation System (DOBIS) Advanced Model-Based Engineering of Embedded Systems An Ensemble Modeling Framework for the Simulation and Optimization of Metabolic Networks A mathematical modeling framework to simulate and analyze cell type transitions Mathematical Modeling and Optimization Modeling and Simulation of Complex Systems Model-Based Engineering of Embedded Systems On the Pragmatics of Graphical Modeling System Analysis and Modeling: Theory and Practice EMF EMF : Eclipse Modeling Framework Model-Driven Engineering Languages and Systems Design and implementation of a generic modeling framework - a platform for integrated land use modeling Dynamic Modeling of Complex Industrial Processes: Data-driven Methods and Application Research A Language Modeling Framework for Selective Query Expansion Model Driven Engineering Languages and Systems Model Driven Engineering Languages and Systems Form-Oriented Analysis Agent-Based Framework for Discrete Entity Simulations GBMF SystemC Kernel Extensions for Heterogeneous System Modeling Model-oriented Systems Engineering Science A Macro-fiscal Modeling Framework for Forecasting and Policy Simulations Theory and Practice of Model Transformations Co-Evolution of Metamodels and Model Transformations Modelling Foundations and Applications Direwolf Model Academy: An Extensible Collaborative Modeling Framework on the Web Form-Oriented Analysis Quitting Certainties A Modeling Framework to Facilitate Schedule Synthesis of Time-sensitive Networking Composite Modeling Based on Distributed Graph Transformation and the Eclipse Modeling Framework Modelling Foundations and Applications Integrated Modeling Framework for Anthropometry and Physiology Virtual Body Robust Control-Oriented Linear Fractional Transform Modelling Consumer Spatial Search Behavior A General Modeling Framework for Describing Spatially Structured Population Dynamics Modelling and Simulation Modeling Mineral and Energy Markets

Eclipse Modeling Framework

2004

bull shows how emf unifies three important technologies java xml and uml bull provides a comprehensive overview of the emf classes including a complete quick reference for all the classes and methods in the emf 1 1 api bull includes examples of many common framework customizations and programming techniques

Building Information Modeling

2015-04-21

this book focuses on how engineers and architects can benefit from new frameworks and technologies by reviewing the building information management bim concept discussing how bim will affect education and practice evaluating current bim technology exploring critical issues for best practices in bim environments and reviewing fundamentals of architectural and structural analysis under the new framework the book provides professionals and students with the necessary knowledge and tools to assist them in understanding architectural structures and utilizing bim to offer practical design solutions

A New Conceptual Modeling Framework for a Distributed Object-based Industrial Simulation System (DOBIS)

2001

this book provides a comprehensive introduction into the spes xt modeling framework moreover it shows the applicability of the framework for the development of embedded systems in different industry domains and reports on the lessons learned it also describes how the spes xt modeling framework can be tailored to meet domain and project specific needs the book is structured into four parts part i starting situation discusses the status quo of the development of embedded systems with specific focus on model based engineering and summarizes key challenges emerging from industrial practice part ii modeling theory introduces the spes xt modeling framework and explains the core underlying principles part iii application of the spes xt framework describes the application of the spes xt modeling framework and how it addresses major industrial challenges part iv evaluation and technology transfer assess the impact of the spes xt modeling framework and includes various exemplary applications from automation automotive and avionics overall the spes xt modeling framework offers a seamless model based engineering approach it addresses core challenges faced during the engineering of embedded systems among others it offers aligned and integrated techniques for the early validation of engineering artefacts including requirements and functional and technical designs the management of product variants and their variability modular safety assurance and deployment of embedded software

Advanced Model-Based Engineering of Embedded Systems

2016-11-29

the quantitative understanding of changes in cell types referred to as cell type transitions is fundamental to advance fields such as stem cell research immunology and cancer therapies this thesis provides a

mathematical modeling framework to simulate and analyze cell type transitions the novel methodological approaches and models presented here address diverse levels which are essential in this context gene regulatory network models represent the cell type determining gene expression dynamics here a novel construction method for gene regulatory network models is introduced which allows to transfer results from generic low dimensional to realistic high dimensional gene regulatory network models for populations of cells a generalized model class is proposed that accounts for multiple cell types division numbers and the full label distribution analysis and solution methods are presented for this new model class which cover common cell population experiments and allow to exploit the full information from data the modeling and analysis methods presented here connect formerly isolated approaches and thereby contribute to a holistic framework for the quantitative understanding of cell type transitions

An Ensemble Modeling Framework for the Simulation and Optimization of Metabolic Networks

2009

computer based mathematical modeling the technique of representing and managing models in machine readable form is still in its infancy despite the many powerful mathematical software packages already available which can solve astonishingly complex and large models on the one hand using mathematical and logical notation we can formulate models which cannot be solved by any computer in reasonable time or which cannot even be solved by any method on the other hand we can solve certain classes of much larger models than we can practically handle and manipulate without heavy programming this is especially true in operations research where it is common to solve models with many thousands of variables even today there are no general modeling tools that accompany the whole modeling process from start to finish that is to say from model creation to report writing this book proposes a framework for computer based modeling more precisely it puts forward a modeling language as a kernel representation for mathematical models it presents a general specification for modeling tools the book does not expose any solution methods or algorithms which may be useful in solving models neither is it a treatise on how to build them no help is intended here for the modeler by giving practical modeling exercises although several models will be presented in order to illustrate the framework nevertheless a short introduction to the modeling process is given in order to expound the necessary background for the proposed modeling framework

A mathematical modeling framework to simulate and analyze cell type transitions

2015-03-20

robert siegfried presents a framework for efficient agent based modeling and simulation of complex systems he compares different approaches for describing structure and dynamics of agent based models in detail based on this evaluation the author introduces the general reference model for agent based modeling and simulation grams furthermore he presents parallel and distributed simulation approaches for execution of agent based models from small scale to very large scale the author shows how agent based models may be executed by different simulation engines that utilize underlying hardware resources in an optimized fashion

Mathematical Modeling and Optimization

2013-03-14

embedded systems have long become essential in application areas in which human control is impossible or infeasible the development of modern embedded systems is becoming increasingly difficult and challenging because of their overall system complexity their tighter and cross functional integration the increasing requirements concerning safety and real time behavior and the need to reduce development and operation costs this book provides a comprehensive overview of the software platform embedded systems spes modeling framework and demonstrates its applicability in embedded system development in various industry domains such as automation automotive avionics energy and healthcare in spes 2020 twenty one partners from academia and industry have joined forces in order to develop and evaluate in different industrial domains a modeling framework that reflects the current state of the art in embedded systems engineering the content of this book is structured in four parts part i starting point discusses the status quo of embedded systems development and model based engineering and summarizes the key requirements faced when developing embedded systems in different application domains part ii the spes modeling framework describes the spes modeling framework part iii application and evaluation of the spes modeling framework reports on the validation steps taken to ensure that the framework met the requirements discussed in part i finally part iv impact of the spes modeling framework summarizes the results achieved and provides an outlook on future work the book is mainly aimed at professionals and practitioners who deal with the development of embedded systems on a daily basis researchers in academia and industry may use it as a compendium for the requirements and state of the art solution concepts for embedded systems development

Modeling and Simulation of Complex Systems

2014-10-08

this book constitutes revised papers of the proceedings of the 7th international workshop on system analysis and modeling sam 2012 held in innsbruck austria in october 2012 the 12 papers presented were carefully reviewed and selected from 27 submissions in addition the book contains two keynote speeches in full paper length the contributions are organized in topical sections named test and analysis language enhancements fuzzy subjects components and composition and configuring and product lines

Model-Based Engineering of Embedded Systems

2012-11-08

the definitive reference to the eclipse modelling framework completely revised and updated for emf 2.3

On the Pragmatics of Graphical Modeling

2011

this book constitutes the refereed proceedings of the 17th international conference on model driven engineering languages and systems models 2014 held in valencia spain in september october 2014 the 41 full papers presented in this volume were carefully reviewed and selected from a total of 126

submissions the scope of the conference series is broad encompassing modeling languages methods tools and applications considered from theoretical and practical angles and in academic and industrial settings the papers report on the use of modeling in a wide range of cloud mobile and web computing model transformation behavioral modeling mde past present future formal semantics specification and verification models at runtime feature and variability modeling composition and adaptation practices and experience modeling for analysis pragmatics model extraction manipulation and persistence querying and reasoning

System Analysis and Modeling: Theory and Practice

2013-02-11

this thesis develops a systematic data based dynamic modeling framework for industrial processes in keeping with the slowness principle using said framework as a point of departure it then proposes novel strategies for dealing with control monitoring and quality prediction problems in industrial production contexts the thesis reveals the slowly varying nature of industrial production processes under feedback control and integrates it with process data analytics to offer powerful prior knowledge that gives rise to statistical methods tailored to industrial data it addresses several issues of immediate interest in industrial practice including process monitoring control performance assessment and diagnosis monitoring system design and product quality prediction in particular it proposes a holistic and pragmatic design framework for industrial monitoring systems which delivers effective elimination of false alarms as well as intelligent self running by fully utilizing the information underlying the data one of the strengths of this thesis is its integration of insights from statistics machine learning control theory and engineering to provide a new scheme for industrial process modeling in the era of big data

EMF

2009

query expansion is a well known technique that has been shown to improve average retrieval performance this technique has not been used in many operational systems because of the fact that it can greatly degrade the performance of some individual queries we show how comparison between language models of the unexpanded and expanded retrieval results can be used to predict when the expanded retrieval has strayed from the original sense of the query in these cases the unexpanded results are used while the expanded results are used in the remaining cases where such straying is not detected we evaluate this method and others on a wide variety of trec collections and show how to automatically compute a decision threshold for a collection we demonstrate the ability of the method to enhance the effectiveness and reliability of the query expansion technique in information retrieval

EMF : Eclipse Modeling Framework

2009

this book constitutes the refereed proceedings of the 9th international conference on model driven engineering languages and systems formerly uml conferences models 2006 the book presents 51 revised full papers and 2 invited papers discussion is organized in topical sections on evaluating uml mda in software development concrete syntax applying uml to interaction and coordination aspects model

integration formal semantics of uml security model transformation tools and implementation and more

Model-Driven Engineering Languages and Systems

2014-09-19

this book constitutes the refereed proceedings of the 11th international conference on model driven engineering languages and systems models 2008 held in toulouse france during september 28 october 3 2008 the 58 revised full papers presented were carefully reviewed and selected from 271 submissions the book also contains three keynote speeches and contributions to workshops symposia tutorials and panels at the conference the papers are organized in topical sections on model transformation foundations requirements modeling domain specific modeling model transformation techniques composition and analysis of behavioral models model comprehension model management behavioral conformance and refinement metamodeling and modularity constraints model analysis service oriented architectures adaptive and autonomic systems empirical studies evolution and reverse engineering modeling language semantics dependability analysis and testing aspect oriented modeling structural modeling and embedded systems

Design and implementation of a generic modeling framework - a platform for integrated land use modeling

2008

form based applications range from simple web shops to complex enterprise resource planning systems draheim and weber adapt well established basic modeling techniques in a novel way to achieve a modeling framework optimized for this broad application domain they introduce new modeling artifacts such as page diagrams and form storyboards and separate dialogue patterns to allow for reuse in their implementation they have developed new constructs such as typed server pages and tools for forward and reverse engineering of presentation layers the methodology is explained using an online bookshop as a running example in which the user can experience the modeling concepts in action the combination of theoretical achievements and hands on practical advice and tools makes this book a reference work for both researchers in the areas of software architectures and submit response style user interfaces and professionals designing and developing such applications more information and additional material is also available online

Dynamic Modeling of Complex Industrial Processes: Data-driven Methods and Application Research

2019-03-19

agent based modeling represents a new way of simulating the interaction of objects with their environment and among themselves through communication agent technology incorporates many of the features of more traditional lagrangian and eulerian efforts but has become feasible in modeling more complex systems only recently this paper describes the development of a general parallel agent based modeling framework in c on department of defense high performance computing hpc machines at the u s army engineer research and development center erdc information technology laboratory itl in vicksburg

ms it provides background on the motivation behind agent based modeling and how it extends traditional modeling techniques differences are identified and the strengths and weaknesses of various modeling paradigms are explained a short history of continuum and discrete model coupling is provided followed by a description of how agent based techniques can incorporate features of both eulerian and lagrangian models the architecture of the itl agent framework and the construction of the behavioral functions that excite or inhibit agent behavior are presented in detail the hardware software evolution path is described as the code goes from a small single threaded binary running on a linux workstation utilizing database calls to meet memory requirements up to its successful translation as a parallel implementation on large hpc machines porting and scaling difficulties are fully explained the framework is tested on an idealized ecological sandbox representing the noyo river basin california and the virtual growth of submerged aquatic vegetation sava under hydraulic conditions driven by the adh adaptive hydrology code output of the erdc coastal and hydraulics laboratory

A Language Modeling Framework for Selective Query Expansion

2004

systemc kernel extensions for heterogeneous system modeling is a result of an almost two year endeavour on our part to understand how systemc can be made useful for system level modeling at higher levels of abstraction making it a truly heterogeneous modeling language and platform for hardware software co design as well as complex embedded hardware designs has been our focus in the work reported in this book

Model Driven Engineering Languages and Systems

2006-11-23

systems engineering se is experiencing a significant expansion that encompasses increasingly complex systems however a common body of knowledge on how to apply complex systems engineering cse has yet to be developed a combination of people and other autonomous agents crossing organization boundaries and continually changing these hybrid systems are less predictable while being more self organizing and adaptive than traditional systems the growing pains of this evolution and the ever widening reach of se technology require an effective foundation for integrating traditional and complex engineering methods addressing machine and human interaction as well as scaling up and down from nano scale to the macro system of systems level model oriented systems engineering science a unifying framework for traditional and complex systems addresses solutions to that expansion and integration problem this text takes advantage of better understood systems science ss to support the transition identifying and using commonalities between complex systems and other sciences such as biology sociology cognitive science organizational theory and computational science the author defines model oriented systems engineering science moses an organized system that selects appropriate information from these disciplines and unifies it into a coherent framework the result is a seamless approach to the class of systems across the extended scope of the new se a foundation upon which to develop an enhanced and unified se modeling orientation mo provides a common perspective on the entire ses se enterprise including all supporting sciences engineering for the full range of traditional complex and hybrid systems and their management this book extends existing modeling approaches into an mo that views all science artifacts and engineering artifacts as models of systems it organizes them into a virtual

structured repository called the se model space effectively a container for the accumulating body of se and ses knowledge in the form of models and patterns by organizing and integrating all these elements into a common framework the author makes the material not only easily accessible but also immediately applicable and provides a well grounded basis for future growth and evolution of the se discipline

Model Driven Engineering Languages and Systems

2008-09-22

this book constitutes the refereed proceedings of the 4th international conference icmt 2011 held in zurich switzerland in june 2011 the 14 revised full papers were carefully revised and selected from 51 submissions the scope of the contributions ranges from theoretical and methodological topics to implementation issues and applications topics addressed are such as transformation paradigms and languages transformation algorithms and strategies implementation and tools as well as applications and case studies

Form-Oriented Analysis

2004-10-19

complexity is an essential property of software systems that increases in a non linear fashion with the size of the software system in software engineering model driven engineering mde aims to alleviate this complexity by utilising models and modelling activities to raise the level of abstraction and to automate the production of artefacts one specialised technique with this purpose is the model transformation which allows the automated creation and modification of output models based on input models as models and model transformations are used in a productive capacity they underlie the same evolutionary pressure that conventionally build software systems do here the tight coupling between model transformations and metamodels becomes problematic as changing the one often results in the need to check and adapt the other accordingly this thesis presents an operator based stepwise approach to support software architects in the co evolution of metamodels and model transformations the approach allows the description of changes done to a metamodel and the automatic or semi automatic resolution of the impact on related model transformations overall the effort needed for co evolution is reduced

Agent-Based Framework for Discrete Entity Simulations

2006

this book constitutes the proceedings of the 11th european conference on modelling foundations and applications ecmfa 2015 held as part of staf 2015 in l aquila utaly in july 2015 the 13 papers presented in this volume were carefully reviewed and selected from 54 submissions the committee decided to accept 13 papers 9 papers for the foundations track and 4 papers for the applications track papers on a wide range of mbe aspects were accepted including topics such as aspect oriented modeling model management model transformation advanced meta modeling uml modeling tools and domain specific modeling w r t energy consumption and cloud based systems

GBMF

2012

form based applications range from simple web shops to complex enterprise resource planning systems draheim and weber adapt well established basic modeling techniques in a novel way to achieve a modeling framework optimized for this broad application domain they introduce new modeling artifacts such as page diagrams and form storyboards and separate dialogue patterns to allow for reuse in their implementation they have developed new constructs such as typed server pages and tools for forward and reverse engineering of presentation layers the methodology is explained using an online bookshop as a running example in which the user can experience the modeling concepts in action the combination of theoretical achievements and hands on practical advice and tools makes this book a reference work for both researchers in the areas of software architectures and submit response style user interfaces and professionals designing and developing such applications more information and additional material is also available online

SystemC Kernel Extensions for Heterogeneous System Modeling

2006-01-16

this book presents a new bayesian framework for modeling rational degrees of belief called the certainty loss framework

Model-oriented Systems Engineering Science

2016-04-19

this book constitutes the proceedings of the 13th european conference on modelling foundations and applications ecmfa 2017 held as part of staf 2017 in marburg germany in july 2017 the 18 papers presented in this volume were carefully reviewed and selected from 48 submissions the papers are organized in the following topical sections meta modeling and language engineering model evolution and maintenance model driven generative development model consistency management model verification and analysis and experience reports case studies and new applications scenarios

A Macro-fiscal Modeling Framework for Forecasting and Policy Simulations

2012

this paper presents a software framework for visual manipulation and processing of human body anthropometric skeletal vascular and other anatomical databases

Theory and Practice of Model Transformations

2011-06-28

this book covers a new paradigm of system modeling the robust control oriented linear fractional transformation lft modeling a dynamic system expressed in lft modeling framework paves the way for the application of modern robust controller design technique like μ synthesis method for controller design this book covers the generalized robust control oriented lft modeling representation of the mimo system depending upon the uncertainty structure system dynamics and the dimensions of the input output the modeling framework results into a compact and manageable representation of uncertainty modeling in the form of feedback like structure that is suitable for design and implementation of the robust control technique like μ synthesis based h control theory this book also describes the application of the proposed methodology in a variety of advanced mechatronic systems like the twin rotor mimo system wheeled mobile robot and an industrial robot arm

Co-Evolution of Metamodels and Model Transformations

2015-08-03

variation in movement across time and space fundamentally shapes the abundance and distribution of populations although a variety of approaches model structured population dynamics they are limited to specific types of spatially structured populations and lack a unifying framework here we propose a unified network based framework sufficiently novel in its flexibility to capture a wide variety of spatiotemporal processes including metapopulations and a range of migratory patterns it can accommodate different kinds of age structures forms of population growth dispersal nomadism and migration and alternative life history strategies our objective was to link three general elements common to all spatially structured populations space time and movement under a single mathematical framework to do this we adopt a network modeling approach the spatial structure of a population is represented by a weighted and directed network each node and each edge has a set of attributes which vary through time the dynamics of our network based population is modeled with discrete time steps using both theoretical and real world examples we show how common elements recur across species with disparate movement strategies and show they can be combined under a unified mathematical framework we illustrate how metapopulations various migratory patterns and nomadism can be represented with this modeling approach we also apply our network based framework to four organisms spanning a wide range of life histories movement patterns and carrying capacities general computer code to implement our framework is provided which can be applied to almost any spatially structure population this framework contributes to our theoretical understanding of population dynamics and has practical management applications including understanding the impact of perturbations on population size distribution and movement patterns by working within a common framework there is less chance that comparative analyses are colored by model details rather than general principles

Modelling Foundations and Applications

2015-07-16

this hands on textbook reference presents an introduction to the fundamental aspects of modelling and simulation both for those wishing to learn about this methodology and also for those who have a need to apply it in their work the text is supported by illustrative examples drawn from projects formulated within the domains of discrete event dynamic systems deds and continuous time dynamic systems ctds this updated new edition has been enhanced with new illustrative case studies and additional examples demonstrating some new features and the effectiveness of the abcmcd conceptual modelling framework

changes that facilitate the development of simulation models with absmod j are illustrated new material includes a presentation of the experimentation strategy called design of experiments and three new chapters that explore the optimization simulation interface topics and features presents a goal based and project oriented perspective of modelling and simulation describes the abcmmod framework an activity based conceptual modelling framework for dedds examines the simulation optimization interface in both the ctds and dedds domains provides numerous illustrative examples case studies and useful algorithms as well as exercises and projects at the end of most chapters includes appendices on probability and statistics the gpcss programming environment and relevant matlab features provides supplementary software and teaching support material at an associated website including lecture slides and a methodology for organizing student projects serving as an essential guide to the foundations of modelling and simulation this practical primer is ideal for senior undergraduate and junior graduate level students also suitable for self study the book will be of great benefit to professionals seeking insight into the vast potential of this rapidly evolving problem solving paradigm

Direwolf Model Academy: An Extensible Collaborative Modeling Framework on the Web

2020

this book provides a framework for analyzing and forecasting a variety of mineral and energy markets and related industries such modeling activity has been at the forefront of the economic and engineering professions for some time having received a major stimulus following the first oil price shock in 1973 since that time other shocks have affected these markets and industries causing disequilibrium economic adjustments which are difficult to analyze and to predict moreover geopolitics remains an important factor which can destabilize crude oil markets and associated refining industries mineral and energy modeling consequently has become a major interest of energy related corporations mining and drilling companies metal manufacturers public utilities investment banks national government agencies and international organizations this book hopes to advance mineral and energy modeling as follows 1 the modeling process is presented sequentially by leading the model builder from model specification estimation simulation and validation to practical model applications including explaining history analyzing policy and market and price forecasting 2 new developments in modeling approaches are presented which encompass econometric market and industry models spatial equilibrium and programming models optimal resource depletion models input output models economic sector models and macro oriented energy interaction models including computable general equilibrium 3 the verification and application of the models is considered not only individually but also in relation to the performance of alternative modeling approaches and 4 the modeling framework includes a perspective on new directions so that the present model building advice will extend into the future

Form-Oriented Analysis

2005-10-14

Quitting Certainties

2013

A Modeling Framework to Facilitate Schedule Synthesis of Time-sensitive Networking

2019

Composite Modeling Based on Distributed Graph Transformation and the Eclipse Modeling Framework

2012

Modelling Foundations and Applications

2017-07-03

Integrated Modeling Framework for Anthropometry and Physiology Virtual Body

2007

Robust Control-Oriented Linear Fractional Transform Modelling

2023-01-03

Consumer Spatial Search Behavior

1991

A General Modeling Framework for Describing Spatially Structured Population Dynamics

2017

Modelling and Simulation

2020-01-01

Modeling Mineral and Energy Markets

2012-10-11

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