

# **Model-Based Design and Evaluation of Interactive Applications**

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HCI2000 Tutorial - Model-based  
Design and Evaluation of  
Interactive Applications

## **Structure of the Tutorial**

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- n Introduction to Model-based Approaches
- n State of art in Task Models
- n ConcurTaskTrees
- n Task Models for Cooperative Applications
- n Exercise
- n Task Models in User Interface Design
- n Task Models in Usability Evaluation

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# Modelbased Design And Evaluation Of Interactive Applications

**Oscar Nierstrasz, Jon Whittle, David  
Harel, Gianna Reggio**



## **Modelbased Design And Evaluation Of Interactive Applications:**

**Model-Based Design and Evaluation of Interactive Applications** Fabio Paternò,1999-11-01 This book covers methods for user interface design and evaluation It shows how the systematic use of task models can make the design and development of interactive software applications easier and more effective and how it can lead to improved usability Useful examples of how to apply the methods will be of interest to application developers A website containing additional exercises and pointers to relevant freeware will also be available

**Model-Based Design and Evaluation of Interactive Applications** Fabio Paterno,2012-12-06 If you are interested in understanding how the systematic use of task models in the design development and usability evaluation of interactive software applications can open new opportunities and possibilities then this book will help you do just that Fabio Patern also discusses related issues relevant to designing user interfaces and provides a state of the art review of the field including recently developed methods current results and problems and trends Details of the notation and analysis discussed including case studies of industrial interest are available for those who want to use them for applied projects and in industrial contexts While the book is designed to suit a range of academic and industrial courses on task models and methods for user interface design and evaluation it will also be useful as supplementary reading for any course on human computer interaction and software engineering

**Human-Computer Interaction** Julie A. Jacko,Constantine Stephanidis,2003-09-01 This four volume set provides the complete proceedings of the 10th International Conference on Human Computer Interaction held June 2003 in Crete Greece A total of 2 986 individuals from industry academia research institutes and governmental agencies from 59 countries submitted their work for presentation at the conference The papers address the latest research and development efforts as well as highlight the human aspects of design and use of computing systems Those accepted for presentation thoroughly cover the entire field of human computer interaction including the cognitive social ergonomic and health aspects of work with computers The papers also address major advances in knowledge and effective use of computers in a variety of diversified application areas including offices financial institutions manufacturing electronic publishing construction health care and disabled and elderly people

**Human-Computer Interaction: Design and Development Approaches** Julie A. Jacko,2011-06-24 This four volume set LNCS 6761 6764 constitutes the refereed proceedings of the 14th International Conference on Human Computer Interaction HCII 2011 held in Orlando FL USA in July 2011 jointly with 8 other thematically similar conferences The revised papers presented were carefully reviewed and selected from numerous submissions The papers accepted for presentation thoroughly cover the entire field of Human Computer Interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The papers of this first volume are organized in topical sections on HCI design model based and patterns based design and development cognitive psychological and behavioural issues in HCI development methods algorithms tools and environments and image processing and retrieval in HCI

*Advances and Applications in*

*Model-Driven Engineering* Díaz, Vicente García, Lovelle, Juan Manuel Cueva, García-Bustelo, B. Cristina Pelayo, Martínez, Oscar Sanjuán, 2013-08-31 As organizations and research institutions continue to emphasize model driven engineering MDE as a first class approach in the software development process of complex systems the utilization of software in multiple domains and professional networks is becoming increasingly vital Advances and Applications in Model Driven Engineering explores this relatively new approach in software development that can increase the level of abstraction of development of tasks This publication covers the issues of bridging the gaps between various disciplines within software engineering and computer science Professionals researchers and students will discover the most current tools and techniques available in the field to maximize efficiency of model driven software development

Classification of User Tasks by the User Behavior Anne Gutschmidt, 2013 On line newspapers have become an important source of information for many people Readers of on line newspapers may regularly check the news in general they may follow the news concerning a certain topic e g when people wanted to get all information that was available on September 11 or they may just check for certain facts such as stock prices or the weather forecast This thesis deals with the question of whether it is possible to recognize the kind of task a Web user is performing by just looking at the user's behavior Two studies were conducted to examine whether behavioral aspects such as mouse and scroll movement mouse clicks or page view duration give hint on the surfing mode which may be just browsing information gathering or fact finding This thesis is meant to provide a basis for the personalization of Websites such as on line newspapers where personalization is not only based on the analysis of content information or general topic preferences but additionally on the current context represented by the kind of task a user is performing at the very moment

Object-Oriented Information Systems Dimitri Konstantas, Michel Leonard, Yves Pigneur, Shusma Patel, 2003-09-09 The conference on Object Oriented Information Systems OOIS is now an established international conference where innovative ideas research applications and experiences in the design development and use of object oriented information systems from both the academic and industrial environments are presented The ninth OOIS conference was held at the University of Geneva September 2-5 2003 The main theme was the Evolution of Object Oriented Information Systems The papers presented ideas and issues related to the evolution adaptability restructuring and extensibility of OOIS In the context of the conference five workshops and four tutorials were organized providing a discussion forum for new ideas and including in depth presentations on important hot subjects The three invited speakers of the ninth OOIS conference provided an alternative view on OOIS and their evolution Prof John Mylopoulos University of Toronto and VLDB president gave the opening presentation entitled Agent Oriented IS Development Dr Richard Soley OMG President and CEO gave the closing presentation entitled Model Driven Architecture The Evolution of Object Oriented Systems and Prof Lina Al-Jadir American University of Beirut gave the theme presentation entitled Once Upon a Time a DTD Evolved into Another DTD

**Advanced Information Systems Engineering Workshops** Marcela Ruiz, Pnina Soffer, 2023-06-12 This book constitutes the

thoroughly refereed proceedings of the international workshops associated with the 35th International Conference on Advanced Information Systems Engineering CAiSE 2023 which was held in Zaragoza Spain during June 12-16 2023. The workshops included in this volume are 1st International Workshop on Hybrid Artificial Intelligence and Enterprise Modelling for Intelligent Information Systems HybridAIMS, 1st Workshop on Knowledge Graphs for Semantics Driven Systems Engineering KG4SDSE, Blockchain and Decentralized Governance Design for Information Systems BC4IS and DGD. They reflect a broad range of topics and trends ranging from blockchain technologies via digital factories, ethics and ontologies to the agile methods for business and information systems. The theme of this year's CAiSE was Cyber Human Systems. The 10 full papers and 9 short papers presented in this book were carefully reviewed and selected from 25 submissions.

Requirements Engineering for Sociotechnical Systems, 2005-01-01. This book provides a detailed account concerning information society and the challenges and application posed by its elicitation, specification, validation and management from embedded software in cars to internet based applications, COTS packages, health care and others. Provided by publisher.

Model Driven Engineering Languages and Systems, Oscar Nierstrasz, Jon Whittle, David Harel, Gianna Reggio, 2006-11-23. 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.

Human-Centered Software Engineering, Marco Winckler, Peter Forbrig, Regina Bernhaupt, 2012-09-22. This book constitutes the refereed proceedings of the 4th International Conference on Human Centered Software Engineering HCSE 2012 held in Toulouse, France, in October 2012. The twelve full papers and fourteen short papers presented were carefully reviewed and selected from various submissions. The papers cover the following topics: user interface design, examining the relationship between software engineering and human computer interaction, and on how to strengthen user centered design as an essential part of software engineering process.

*Advances in Aeronautical Informatics*, Umut Durak, Jürgen Becker, Sven Hartmann, Nikolaos S. Voros, 2018-05-10. The history of flight started with the pioneer era. The introduction of mechanical controls including hydraulics then led to the second era. Later with the utilization of computers and automation in aircraft we reached the third era. Now we are moving towards the fourth era of flight, namely Flight 4.0, which is characterized by smart and connected aircraft that extensively exploit emerging information and communication technologies. Aeronautical informatics is advancing rapidly through the synergy between information and communication technologies and aeronautics. Multi-core avionics platforms, wireless avionics networking, service-oriented architectures and IoT data sciences and semantic infrastructures are shaping systems to come. Increasing autonomy requirements are challenging the community to investigate new ways to assure safety. Modern software engineering

methodologies and real time software techniques are altering the established development practice Universities are starting to align their aerospace engineering and computer science curriculums in order to address this synergy This book is a unique compilation of advancements in aeronautical informatics introducing the changing technology landscape of flight with respect to a new push in information and communication technology

**Human-Computer Interaction with Mobile Devices and Services** Luca Chittaro,2003-10-24 This book constitutes the refereed proceedings of the 5th International Symposium on Mobile Human Computer Interaction Mobile HCI 2003 held in Udine Italy in September 2003 The 21 revised full papers and 29 revised short papers presented together with a keynote paper and an abstract of a keynote speech were carefully reviewed and selected from 122 submissions The papers are organized in topical sections on mobile users in natural context input techniques for mobile devices location aware guides and planners bringing mobile services to groups in workplaces mobile gambling tools and frameworks for mobile interface design and generation and usability and HCI research methods

**HCI related papers of Interacción 2004** Raquel Navarro-Prieto,Jesús Lorés-Vidal,2006-06-06 The present book contains a collection of the best papers presented at the 5th International Conference on Interacción Persona Ordenador IPO which is Human Computer Interaction in Spanish which took place in Lleida on May 5-7 2004 This conference was co organised by the Universitat of Lleida and the Universitat Oberta de Catalunya Each year this conference is promoted by the Asociación para la Interacción Persona Ordenador AIPO the Spanish Human Computer Interaction Association in collaboration with the local group of ACM SIGCHI CHISPA In its fifth edition this conference has become a multidisciplinary forum for the discussion and dissemination of novelty research in Human Computer Interaction The main goals of Interacción 2004 were To expand the conference scope with internationally recognised invited speakers The plenary talks were presented by Alan Dix Yvonne Rogers Geritt van der Veer and Angel Puerta To open the participation to Spanish speaker worldwide in order to be a point of reference of this discipline not only in Spain but also in the wider Spanish speaking community This goal was reached through a very diverse program which included panels and posters sessions where many different aspect of the Human Computer Interaction HCI were presented All through the program research from outside Spain was reflected through the contributions from people of other countries

**E-learning** Safeullah Soomro,2010-04-01 This book is consisting of 24 chapters which are focusing on the basic and applied research regarding e learning systems Authors made efforts to provide theoretical as well as practical approaches to solve open problems through their elite research work This book increases knowledge in the following topics such as e learning e Government Data mining in e learning based systems LMS systems security in e learning based systems surveys regarding teachers to use e learning systems analysis of intelligent agents using e learning assessment methods for e learning and barriers to use of effective e learning systems in education Basically this book is an open platform for creative discussion for future e learning based systems which are essential to understand for the students researchers academic personals and industry related people to

enhance their capabilities to capture new ideas and provides valuable solution to an international community

**Architecting the Internet of Things** Dieter Uckelmann, Mark Harrison, Florian Michahelles, 2011-04-02 Many of the initial developments towards the Internet of Things have focused on the combination of Auto ID and networked infrastructures in business to business logistics and product lifecycle applications However the Internet of Things is more than a business tool for managing business processes more efficiently and more effectively it will also enable a more convenient way of life Since the term Internet of Things first came to attention when the Auto ID Center launched their initial vision for the EPC network for automatically identifying and tracing the flow of goods within supply chains increasing numbers of researchers and practitioners have further developed this vision The authors in this book provide a research perspective on current and future developments in the Internet of Things The different chapters cover a broad range of topics from system design aspects and core architectural approaches to end user participation business perspectives and applications

**Integrating a Usable Security Protocol into User Authentication Services Design Process** Christina Braz, Ahmed Seffah, Bilal Naqvi, 2018-11-08 There is an intrinsic conflict between creating secure systems and usable systems But usability and security can be made synergistic by providing requirements and design tools with specific usable security principles earlier in the requirements and design phase In certain situations it is possible to increase usability and security by revisiting design decisions made in the past in others to align security and usability by changing the regulatory environment in which the computers operate This book addresses creation of a usable security protocol for user authentication as a natural outcome of the requirements and design phase of the authentication method development life cycle

**Integrating Usability Engineering for Designing the Web Experience: Methodologies and Principles** Spiliotopoulos, Tasos, Papadopoulou, Panagiota, Martakos, Drakoulis, Kouroupetroglou, Georgios, 2010-01-31 The book provides a link between theoretical research and web engineering presenting a more holistic approach to web usability Provided by publisher

**Advanced Mobility and Transport Engineering** Slim Hammadi, Mekki Ksouri, 2013-03-04 Multimodal transport network customers need to be directed during their travels A travel support tool can be offered by a Multimodal Information System MIS which allows them to input their needs and provides them with the appropriate responses to improve their travel conditions The goal of this book is to design and develop methodologies in order to realize a MIS tool which can ensure permanent multimodal information availability before and during travel considering passengers mobility The authors propose methods and tools that help transport network customers to formulate their requests when they connect to their favorite information systems through PC laptop cell phone Portable Digital Assistant PDA etc The MIS must automatically identify the websites concerning the customer s services These sites can in fact represent transport services cultural services tourist services etc The system should then be able to collect the necessary travel information from these sites in order to construct and propose the most convenient information according to the user s requests

**Strategic Information Systems: Concepts, Methodologies,**

**Tools, and Applications** Hunter, M. Gordon, 2009-08-31 This 4 volume set provides a compendium of comprehensive advanced research articles written by an international collaboration of experts involved with the strategic use of information systems Provided by publisher



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