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HAMMOND BROOKS

Formal Methods for Model-Driven Engineering John Wiley & Sons
Software engineering is widely recognized as one of the most exciting, stimulating, and profitable research areas, with a significant practical impact on the software industry. Thus, training future generations of software engineering researchers and bridging the gap between academia and industry are vital to the field. The International Summer School on Software Engineering (ISSSE), which started in 2003, aims to contribute both to training future researchers and to facilitating the exchange of knowledge between academia and industry. This volume consists of chapters originating from a number of tutorial lectures given in 2009, 2010, and 2011 at the International Summer School on Software Engineering, ISSSE, held in Salerno, Italy. The volume has been organized into three parts, focusing on software measurement and empirical software engineering, software analysis, and software management. The topics covered include software architectures, software product lines, model driven software engineering, mechatronic systems, aspect oriented software development, agile development processes, empirical software engineering, software maintenance, impact analysis, traceability management, software testing, and search-based software engineering.
Object-Oriented Data Structures Using Java schoolime
This is a step-by-step introduction to object-oriented software development. It is suitable for teaching and for self study by practising software engineers seeking to add rigour to their techniques. Seven complete case studies are included along with several smaller examples derived from small software projects developed for and delivered to real users. These examples make use of a bridge process, which presents a systematic approach for developing analysis models and unfolding these incrementally and iteratively through to design models and implementation. The process could be viewed as one example of unified software development and has the potential of being scalable to large software problems. It also provides a model for organising deliverables obtained throughout different phases of the software life cycle. These case studies provide a medium for experimental use and act as templates that can be tailored by readers to fit their specific needs and circumstances.
Recent Advances and Future Prospects in Knowledge, Information and Creativity Support Systems John Wiley & Sons
This tutorial book presents revised and extended lecture notes for a selection of the contributions presented at the International Summer School on Generative and Transformational Techniques in Software Engineering (GTTSE 2009), which was held in Braga, Portugal, in July 2009. The 16 articles comprise 7 long tutorials, 6 short tutorials and 3 participants contributions; they shed light on the generation and transformation of programs, data, models, metamodels, documentation, and entire software systems. The topics covered include software reverse and re-engineering, model driven engineering, automated software engineering, generic language technology, and software language engineering.
Artificial Intelligence in Education "O'Reilly Media, Inc."
The second instance of the international summer school on Generative and Transformational Techniques in Software Engineering (GTTSE 2007) was held in Braga, Portugal, during July 2–7, 2007. This volume contains an augmented selection of the material presented at the school, including full tutorials, short tutorials, and contributions to the participants workshop. The GTTSE summer school series brings together PhD students, lecturers, technology presenters, as well as other researchers and practitioners who are interested in the generation and the transformation of programs, data, models, metamodels, documentation, and entire software systems. This concerns many areas of software engineering: software reverse and re-engineering, model-driven engineering, automated software engineering, generic language technology, to name a few. These areas di?er with regard to the speci?c sorts of metamodels (or grammars, schemas, formats etc.) that underlie the involved artifacts, and with regard to the speci?c techniques that are employed for the generation and the transformation of the artifacts. The ?rst instance of the school was held in 2005 and its proceedings appeared as volume 4143 in the LNCS series.
Generative and Transformational Techniques in Software Engineering II Cambridge University Press
Data Structures & Theory of Computation
UML Distilled Springer
Abstract state machines (ASM) sharpen the Church-Turing thesis by the c- sideration of bounded resources for computing devices. They view computations as an evolution of a state. It has been shown that all known models of com- tation can be expressed through speci?c abstract state machines. These models can be given in a representation-independent way. That is one advantage

of transferring these models to ASM. The main advantage is, however, to provide a unifying theory to all of these models. At the same time ASM can be re?ned to other ASMs. Stepwise re?nement supports separation of concern during so- ware development and will support component-based construction of systems thus providing a foundation of new computational paradigms such as industrial programming, programming-in-the-large, and programming-in-the-world. ASM 2004 continued the success story of the ASM workshops. Previous workshops were held in the following European cities: Taormina, Italy (2003); Dagstuhl, Germany (2002); Las Palmas de Gran Canaria, Spain (2001); Monte Verita, Switherland (2000); Toulouse, France (1999); Magdeburg, Germany (1998); Cannes, France (1998, 1997); Paderborn, Germany (1996); and H- burg, Germany (1994). The ASM workshops have had predecessors, e.g., the famous Lipari Summer School in 1993, whose in?uential outcome was the f- damental Lipari Guide.

An Introduction to Business Information Management Springer

This book presents 11 tutorial lectures by leading researchers given at the 12th edition of the International School on Formal Methods for the Design of Computer, Communication and Software Systems, SFM 2012, held in Bertinoro, Italy, in June 2012. SFM 2012 was devoted to model-driven engineering and covered several topics including modeling languages; model transformations, functional and performance modeling and analysis; and model evolution management.

Engineering Trustworthy Software Systems Springer

This book presents 8 tutorial survey papers by leading researchers who lectured at the 5th International School on Formal Methods for the Design of Computer, Communication, and Software Systems, SFM 2005, held in Bertinoro, Italy in April 2005. SFM 2005 was devoted to formal methods and tools for the design of mobile systems and mobile communication infrastructures. The 8 lectures are organized into topical sections on models and languages, scalability and performance, dynamic power management, and middleware support.

The Elements of UML(TM) 2.0 Style Springer

Larman covers how to investigate requirements, create solutions and then translate designs into code, showing developers how to make practical use of the most significant recent developments. A summary of UML notation is included

Verification and Validation for Quality of UML 2.0 Models Springer Nature

This textbook develops an understanding of the software development process and provides design practice using UML. Focusing on design techniques it describes the software process and lifecycle, and covers the main terms and concepts of object orientation and component based engineering. Case studies illustrate the issues involved in real life design, including real time systems, data oriented and component based design.

Advances in Learning Software Organizations Springer

This book chronicles a 10-year introduction of blended learning into the delivery at a leading technological university, with a longstanding tradition of technology-enabled teaching and learning, and state-of-the-art infrastructure. Hence, both teachers and students were familiar with the idea of online courses. Despite this, the longitudinal experiment did not proceed as expected. Though few technical problems, it required behavioural changes from teachers and learners, thus unearthing a host of socio-technical issues, challenges, and conundrums. With the undercurrent of design ideals such as "tech for good", any industrial sector must examine whether digital platforms are credible substitutes or at best complementary. In this era of Industry 4.0, higher education, like any other industry, should not be about the creative destruction of what we value in universities, but their digital transformation. The book concludes with an agenda for large, repeatable Randomised Controlled Trials (RCTs) to validate digital platforms that could fulfil the aspirations of the key stakeholder groups – students, faculty, and regulators as well as delving into the role of Massive Open Online Courses (MOOCs) as surrogates for "fees-free" higher education and whether the design of such a HiEd 4.0 platform is even a credible proposition. Specifically, the book examines the data-driven evidence within a design-based research methodology to present outcomes of two alternative instructional designs evaluated – traditional lecturing and blended learning. Based on the research findings and statistical analysis, it concludes that the inexorable shift to online delivery of education must be guided by informed educational management and innovation. .

Formats Influence Outcomes Springer

Integration -- Applications of transformations -- Applications of MDA -- Process -- Model consistency -- Model management -- Transformation (1) -- Ontologies -- Reengineering -- Tools and profiles -- Tool generation -- Constraints -- Model management and transformations -- Transformation (2).

Higher Education 4.0 Jones & Bartlett Learning

Concise and easy-to-understand guidelines and standards for creating UML 2.0 diagrams.

Model-Driven Architecture - Foundations and Applications Jones & Bartlett Learning

This volume contains the lecture notes of the five courses and one seminar given at the School on Engineering Trustworthy Software Systems (SETSS 2014), held in September 2014 at Southwest University in Chongqing, China. The material is useful for postgraduate students, researchers, academics and industrial engineers who are interested in the theory and practice of methods and tools for the design and programming of trustworthy software systems. The common themes of the courses include the design and use of theories, techniques and tools for software specification and modeling, analysis and verification. The courses cover sequential programming, component- and object software, hybrid systems and cyber-physical systems with challenges of termination, security, safety, security, fault-tolerance and real-time requirements. The techniques include model checking, correctness by construction through refinement and model transformations, synthesis and computer algebra.

APPLYING UML & PATTERNS 3RD EDITION Springer

This book constitutes the proceedings of the 6th European Conference on Modelling Foundations and Applications, held in Paris, France, in June 2010.

UML by Example Lulu.com

This book constitutes the refereed proceedings of the 8th International Conference on Informatics in Schools: Situation, Evolution, and Perspectives, ISSEP 2015, held in Ljubljana, Slovenia, in September/October 2015. The 14 full papers presented together with 3 invited talks were carefully reviewed and selected from 36 submissions. The focus of the conference was on following topics: sustainable education in informatics for pupils of all ages; connecting informatics lessons to the students' everyday lives; teacher education in informatics; and research on informatics in schools (empirical/qualitative/quantitative/theory building/research methods/comparative

studies/transferability of methods and results from other disciplines).

Essentials of Software Engineering Springer

Software-intensive organizations cannot help but learn. A software organization that does not learn will not exist for long, because the software market is continuously on the move, because of new customerdemandsand needs, and becauseof new competitor products and services. Software organizationsmust adapt quickly to this ever-changing environment, and the capability to adapt is one of the most important aspects of lea- ing. Smart organizations will attempt to predict future software demands, and develop a corresponding knowledge road map that identi?es the capabilities needed over time in order to meet these demands. Organizational learning typically occurs when experienced organization members share their knowledge with colleagues, such that the organization as a whole can pro?t from the intellectual capital of its members. While knowledge is typically shared in an adhoc fashion by means of direct, face-to-face communication, a learning software organizationwill want to ensurethat this knowledgesharingoccursina systematicway, enabling it whenever and wherever it is needed. Since 1999,the annualInternationalWorkshopon LearningSoftwareOrganizations (LSO) hasprovideda communicationforumthat bringstogether academiaand industry to discuss the advancements in and to address the questions of continuous learning in software-intensive organizations. Building upon existing work on knowledge mana- ment and organizational learning, the workshop series promotes interdisciplinary - proaches from computer science and information systems, business, management and organization science as well as cognitive science.

Generative and Transformational Techniques in Software Engineering III Springer

Previously published as Strategic Information Management in Hospitals; An Introduction to Hospital Information Systems, Health Information Systems Architectures and Strategies is a definitive volume written by four authoritative voices in medical informatics. Illustrating the importance of hospital information management in delivering high quality health care at the lowest possible cost, this book provides the essential resources needed by the medical informatics specialist to understand and successfully manage the complex nature of hospital information systems. Author of the first edition's Foreword, Reed M. Gardner, PhD, Professor and Chair, Department of Medical Informatics, University of Utah and LDS Hospital, Salt Lake City, Utah, applauded the text's focus on the underlying administrative systems that are in place in hospitals throughout the world. He wrote, "These challenging systems that acquire, process and manage the patient's clinical information. Hospital information systems provide a major part of the information needed by those paying for health care." their components; health information systems; architectures of hospital information systems; and organizational structures for information management.

Abstract State Machines 2004. Advances in Theory and Practice Springer Nature

-- Includes case studies based on real world solution deployments with Vicinity, ATX, Ford and Hutchison 3G.-- Insights into differences between solutions for US and European marketplaces.-- Includes a software development kit for building a basic Location Service Solution.Mobile applications must be much smarter than desktop web applications. These applications need to know user's location, surroundings, and provide directions on how to get there. Developers face many challenges, including how to pinpoint the user's location, how to retrieve relevant spatial data from map databases that are often 20 Gigabytes in size, and how to support multiple clients. The mobility provided by the proliferation of wireless devices, such as Palm Pilots and onboard navigation systems presents a new class of opportunities and problems for application developers. This book provides an end-to-end solution guide to understand the issues in location-based services and build solutions that will sell. Complete with software and industry case studies, this book is an essential companion to anyone wanting to build the next killer application. The more than one million auto-based telematics terminals that have been installed by year-end 2001 are ample testimony of the opportunities and attractiveness of the mobile location services market. This large and growing installed base of subscribers also provides multiple implementation examples, which are incorporated into the text

Modelling Foundations and Applications Springer Science & Business Media

This book constitutes a collection of the best papers selected from the 12 workshops and 3 tutorials held in conjunction with MODELS 2008, the 11th International Conference on Model Driven Engineering Languages and Systems, in Toulouse, France, September 28 - October 3, 2008. The contributions are organized within the volume according to the workshops at which they were presented: Model Based Architecting and Construction of Embedded Systems (ACES-MB); Challenges in Model Driven Software Engineering (CHAMDE); Empirical Studies of Model Driven Engineering (ESMDA); Models@runtime; Model Co-evolution and Consistency Management (MCCM); Model-Driven Web Engineering (MDWE); Modeling Security (MODSEC); Model-Based Design of Trustworthy Health Information Systems (MOTHIS); Non-functional System Properties in Domain Specific Modeling Languages (NFPin DSML); OCL Tools: From Implementation to Evaluation and Comparison (OCL); Quality in Modeling (QIM); and Transforming and Weaving Ontologies and Model Driven Engineering (TWOMDE). Each section includes a summary of the workshop. The last three sections contain selected papers from the Doctoral Symposium, the Educational Symposium and the Research Project Symposium, respectively.