The World Wide Web has a massive and permanent influence on our lives. Economy, industry, education, healthcare, public administration, entertainment - there is hardly any part of our daily lives which has not been pervaded by the Internet. Accordingly, modern Web applications are fully fledged, complex software systems, and in order to be successful their development must be thorough and systematic. This book presents a new discipline called Web Engineering, taking a rigorous interdisciplinary approach to the development of Web applications, covering Web development concepts, methods, tools, and techniques. It highlights the need to examine and reuse the body of knowledge found within software engineering and demonstrates how to use that knowledge within the Web environment, putting emphasize on current practices, experiences and pitfalls. The book is ideal for undergraduate and graduate students on Web focused or Software Engineering courses, as well as Web software developers, Web designers and project managers.
Web Engineering

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Web Engineering

Web Engineering - Boualem Benatallah 2010-06-30 The LNCS series reports state-of-the-art results in computer science research, development, and education, at a high level and in both printed and electronic form. Enjoying tight cooperation with the R&D community, with numerous individuals, as well as with prestigious organizations and societies, LNCS has grown into the most comprehensive computer science research forum available. The scope of LNCS, including its subseries LNAl and LNBi, spans the whole range of computer science and information technology including interdisciplinary topics in a variety of application fields. In parallel to the printed book, each new volume is published electronically in LNCS Online.

Web Engineering - Marco Brambilla 2012-07-23 This book constitutes the refereed proceedings of the 12th International Conference on Web Engineering, ICWE 2012, held in Berlin, Germany, in July 2012. The 20 revised full papers and 15 short papers were carefully reviewed and selected from 98 submissions. The papers are organized in topical sections on social networks and collaboration, tagging, personalization and personal systems, search, Web modeling, AJAX and user interfaces, Web services, Web crawling, and Web and linked data management. The book also includes 6 poster papers, 12 demos and 5 tutorials.

Web Engineering - Woojong Suh 2005-01-01 Although based primarily on MIS and computer science areas, Web engineering covers a wide range of disciplines, thus making it difficult to gain an understanding of the field. Web Engineering: Principles and Techniques provides clarity to this often muddled issue.

Current Trends in Web Engineering - Irene Garrigós 2018-02-21 This book constitutes the refereed thoroughly refereed post-workshop proceedings of the 17th International Conference on Web Engineering, ICWE 2017, held in Rome, Italy, in June 2017. The 24 revised full papers were selected from 34 submissions. The workshops complement the main conference, and explore new trends on core topics of Web engineering. The workshop committee accepted five workshops of which the following four contributed papers to this volume: - 2nd International Workshop on Liquid Multi-Device Software and 1st International Workshop on Engineering the Web of Things - International Workshop on The Practice Of The Open Web (practi-O-web 2017) - 3rd International Workshop on Natural Language Processing for Informal Text (NLPIT 2017) - 3rd International Workshop on Mining the Social Web (SoWeMine 2017).


Web Engineering - Martin Gaedke 2009-06-18 This book constitutes the refereed proceedings of the 9th International Conference on Web Engineering, ICWE 2009, held in San Sebastian, Spain in June 2009. The 22 revised full papers and 13 short papers presented together with 8 posters and 10 demonstration papers were carefully reviewed and selected from 90 submissions. The papers are organized in topical sections on accessibility and usability, component-based web engineering: portals and mashups, data and semantics, model-driven web engineering, navigation, process, planning and phases, quality, rich internet applications, search, testing, web services, SOA and REST, and web 2.0.

Web Engineering - Marco Brambilla 2021-04-19 This book constitutes the proceedings of the 21st International Conference on Web Engineering, ICWE 2021, which was supposed to be held in Biarritz, France, in May 2021. Due to the corona pandemic the conference changed to a virtual format. The total of 22 full and 13 short contributions presented in this volume were carefully reviewed and selected from 128 submissions. The book also contains 6 demonstration, 1 poster, 3 PhD, and 3 tutorial papers. The papers were organized in topical sections named: Semantic Web; social Web; Web modeling and engineering; Web big data and data analytics; Web mining and knowledge extraction; Web of Things; Web programming; Web user interfaces; PhD symposium; posters and demonstrations; and tutorials.

Web Engineering: A Practitioner's Approach - Roger Pressman 2009 and content management. Whether you're an industry practitioner or intend to become one, Web Engineering: A Practitioner's Approach can help you meet the challenge of the next generation of Web-based systems and applications." --Book Jacket.

Web Engineering - Woojong Suh 2005-01-01 As most organizations have expanded traditional business space into Web-based environments, a more complete and thorough understanding of Web engineering is becoming vital. Although based primarily on MIS and computer science areas, Web engineering covers a wide range of disciplines, thus making it difficult to gain an understanding of the field. Web Engineering: Principles and Techniques provides clarity to this often muddled issue. Covering a wide range of topics, this book provides the necessary tools vital for organizations to utilize the full potential of Web engineering.

Web Engineering - Jordi Cabot 2017-05-30 This book constitutes the refereed proceedings of the 17th International Conference on Web Engineering, ICWE 2017, held in Rome, Italy, in June 2017. The 20 full research papers and 12 short papers presented together with 6 application papers, 6 demonstration papers, and 6 contributions to the PhD Symposium, were
Web Engineering - Nora Koch 2004-07-14 Web engineering is a new discipline that addresses the pressing need for systematic and tool-supported approaches for the development, maintenance and testing of Web applications. Web engineering builds upon well-known and successful software engineering principles and practices, adapting them to the special characteristics of Web applications. Even more relevant is the enrichment with methods and techniques stemming from related areas like hypertext authoring, human-computer interaction, content management, and usability engineering. The goal of the 4th International Conference on Web Engineering (ICWE 2004), held in Oviedo, Spain in July 2004, was to work towards a better understanding of the issues related to Web application development. Special attention was paid to emerging trends, technologies and future visions, to help the academic and industrial communities identify the most challenging tasks for their research and projects. Following a number of successful workshops on Web engineering since 1997 at well-known conferences, such as ICSE and WWW, the 7th conference on Web engineering was held in Caceres, Spain in 2001. It was followed by ICWE 2002 in Santa Fe, Argentina and ICWE 2003 in Oviedo, Spain. In 2004 ICWE moved to the center of Europe and was held in Munich, Germany from July 26 to 30. ICWE 2004 was organized by the Institute for Informatics of the Ludwig-Maximilians-Universität (LMU) Munich. The ICWE 2004 edition received a total of 204 submissions, out of which 25 papers were selected by the Program Committee as full papers (12% acceptance).

Web Engineering - David Lowe 2005-07-18 This book constitutes the refereed proceedings of the 5th International Conference on Web Engineering, ICWE 2005, held in Sydney, Australia in July 2005. The 33 revised full papers, 36 revised short papers, and 17 poster and demo papers presented together with abstracts of 4 invited keynote papers were carefully reviewed and selected from 180 submissions. The papers are organized in topical sections on Web engineering milieu, evaluation and verification, non-functional requirements and testing, query and retrieval, applications, ontologies and XML, semantics and semantic Web, Web security, Web services and application design, and miscellaneous.

Web Engineering - Juan Manuel Cueva Lovelle 2003-08-02 The refereed proceedings of the International Conference on Web Engineering, ICWE 2003, held in Oviedo, Spain in July 2003. The 25 revised full papers and 73 short papers presented together with 2 invited papers were carefully reviewed and selected from 190 submissions. The papers are organized in topical sections on agents on the Web, e-commerce, e-learning, human-computer interaction, languages and tools, mobility and the Web, multimedia techniques and telecommunications, security, Web quality and testing, semantic Web, and Web applications development.

Web Engineering - 2003
Web Engineering—Sören Auer 2011-06-21 This book constitutes the refereed proceedings of the 11th International Conference on Web Engineering, held in Paphos, Cyprus, in June 2011. The 22 revised full papers and 15 revised poster papers presented together with 2 invited lectures were carefully reviewed and selected from 90 submissions for inclusion in the book. The papers topics cover a broad range of areas, namely, the Semantic Web, Web Services, Mashups, Web 2.0, Web quality, Web development, etc.

Web Engineering—Emilia Mendes 2006-03-28 Since its original inception back in 1998 the Web has changed into an environment where Web applications range from small-scale information dissemination applications, often developed by non-IT professionals, to large-scale, commercial, enterprise-planning and scheduling applications, developed by multidisciplinary teams of people with diverse skills and backgrounds and using cutting-edge, diverse technologies. As an engineering discipline, Web engineering must provide principles, methodologies and frameworks to help Web professionals and researchers develop applications and manage projects effectively. Mendes and Mosley have selected experts from numerous areas in Web engineering, who contribute chapters where important concepts are presented and then detailed using real industrial case studies. After an introduction into the discipline itself and its intricacies, the contributions range from Web effort estimation, productivity benchmarking and conceptual and model-based application development methodologies, to other important principles such as usability, reliability, testing, process improvement and quality measurement. This is the first book that looks at Web engineering from a measurement perspective. The result is a self-containing, comprehensive overview detailing the role of measurement and metrics within the context of Web engineering. This book is ideal for professionals and researchers who want to know how to use sound principles for the effective management of Web projects, as well as for courses at an advanced undergraduate or graduate level.

Current Trends in Web Engineering—Andreas Harth 2012-02-14 This book constitutes the thoroughly refereed post-conference proceedings of the workshops held at the 11th International Conference on Web Engineering, ICWE 2011, in Paphos, Cyprus, in June 2011. The 42 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in sections on the Third International Workshop on Lightweight Composition on the Web (ComposableWeb 2011); First International Workshop on Search, Exploration and Navigation of Web Data Sources (ExploreWeb 2011); Second International Workshop on Enterprise Crowdsourcing (EC 2011); Seventh Model-Driven Web Engineering Workshop (MDWE 2011); Second International Workshop on Quality in Web Engineering (QWE 2011); Second Workshop on the Web and Requirements Engineering (WeRE 2011); as well as the Doctoral Symposium2011, and the ICWE 2011 Tutorials.

Current Trends in Web Engineering—Marco Brambilla 2020-06-30 This book constitutes the thoroughly refereed post-workshop proceedings of the 19th International Conference on Web Engineering, ICWE 2019, held in Daejeon, South Korea, in June 2019. The 11 revised full papers were selected from 25 submissions. The workshops complement the main conference and explore new trends on core topics of Web engineering and provide an open discussion space combining solid theory work with practical on-the-field experience. The workshop committee accepted three workshops for publication in this volume: 5th International Workshop on Knowledge Discovery on the Web (KDWEB 2019), Second International Workshop on Maturity of Web Engineering Practices (MATWEP 2019), International Workshop on Data Science and Knowledge Graph (DSKG 2019).

Current Trends in Web Engineering—Cesare Pautasso 2018-11-28 This book constitutes the refereed thoroughly refereed post-workshop proceedings of the 18th International Conference on Web Engineering, ICWE 2018, held in Cáceres, Spain, in June 2018. The 18 revised full papers were selected from 40 submissions. The workshops complement the main conference and explore new trends on core topics of Web engineering and provide an open discussion space combining solid theory work with practical on-the-field experience. The workshop committee accepted five workshops for publication in this volume: First International Workshop on Maturity of Web Engineering Practices (MATWEP 2018), Second International Workshop on Engineering the Web of Things (EnWoT 2018), Fourth International Workshop on Knowledge Discovery on the Web (KDWEB 2018), International Workshop on Engineering Open Data (WEOD 2018), First International Workshop on Knowledge Graphs on Travel and Tourism (TourismKG 2018).

Integrated Approaches in Information Technology and Web Engineering: Advancing Organizational Knowledge Sharing—Alkhatib, Ghazi I. 2008-11-30 Provides a collection of authoritative articles from distinguished international researchers in information technology and Web engineering.


Current Trends in Web Engineering—Florian Daniel 2015-10-15 This book constitutes the thoroughly refereed post-conference proceedings of Current Trends in Web Engineering, ICWE Workshops 2015 which was held in June 2015 in Rotterdam, The Netherlands. The 16 revised full papers were selected form 23 submissions and cover topics on natural language processing for informal text, pervasive Web technologies, trends and challenges, and mining in the social Web.
Web Engineering - Nora Koch 2004-07-07 Web engineering is a new discipline that addresses the pressing need for systematic and tool-supported approaches for the development, maintenance, and testing of Web applications. Web engineering builds upon well-known and successful software engineering principles and practices, adapting them to the special characteristics of Web applications. Even more relevant is the enrichment with methods and techniques stemming from related areas like hypertext authoring, human-computer interaction, context management, and usability engineering. The goal of the 4th International Conference on Web Engineering (ICWE 2004), inline with the previous ICWE conferences, was to work towards a better understanding of the issues related to Web application development. Special attention was paid to emerging trends, methodologies, and technologies and future visions, to help the academic and industrial communities identify the most challenging tasks for their research and projects. Following a number of successful workshops on Web engineering since 1997 at well-known conferences, such as ICSE and WWW, the 1st conference on Web engineering was held in Caceres, Spain in 2001. It was followed by ICWE 2002 in Santa Fe, Argentina and ICWE 2003 in Oviedo, Spain. In 2004 ICWE moved to the center of Europe and was held in Munich, Germany from July 26 to 30. ICWE 2004 was organized by the Institute for Informatics of the Ludwig-Maximilians-Universitat at (LMU) Munich. The ICWE 2004 edition received a total of 204 submissions, out of which 25 papers were selected by the Program Committee of full papers (12% acceptance).

Web Engineering and Peer-to-Peer Computing - Enrico Gregori 2002-09-09 This book constitutes the thoroughly refereed joint post-proceedings of two workshops on web engineering and peer-to-peer computing held in conjunction with NETWORKING 2002 in Pisa, Italy, in May 2002. The 31 revised full papers presented were carefully selected during two rounds of reviewing and improvement. They are organized in topical sections, models and characterization of web traffic, caching infrastructure and content delivery networks, building web-based systems, web server performance analysis, routing and discovery in peer-to-peer networks, applications, programming models for peer-to-peer systems, and security in peer-to-peer computing.

Web Engineering - Emilia Mendes 2005-12-08 Since its original inception back in 1989 the Web has changed into an environment where Web applications range from small-scale information dissemination applications, often developed by non-IT professionals, to large-scale, commercial, enterprise-planning and scheduling applications, developed by multidisciplinary teams of people with diverse skills and backgrounds and using cutting-edge, diverse technologies. As an engineering discipline, Web engineering must provide principles, methodologies and frameworks to help Web professionals and researchers develop applications and manage projects effectively. Mendes and Mosley have selected experts from numerous areas in Web engineering, who contribute chapters where important concepts are presented and then detailed using real industrial case studies. After an introduction into the discipline itself and its intricacies, the contributions range from Web effort estimation, productivity benchmarking and conceptual and model-based application development methodologies, to other important principles such as usability, reliability, testing, process improvement and quality measurement. This is the first book that looks at Web engineering from a measurement perspective. The result is a self-containing, comprehensive overview detailing the role of measurement and metrics within the context of Web engineering. This book is ideal for professionals and researchers who want to know how to use sound principles for the effective management of Web projects, as well as for courses at an advanced undergraduate or graduate level.

Web Engineering - Tommi Mikkonen 2018-05-20 This book constitutes the refereed proceedings of the 18th International Conference on Web Engineering, ICWE 2018, held in Caceres, Spain, in June 2018. The 18 full research papers and 17 short papers presented together with 2 practice papers, 6 demonstration papers, and 5 tutorials were carefully reviewed and selected from 103 submissions. The papers cover research areas such as Web application modeling and engineering; Web infrastructures and architectures; execution models; human computation and crowdsourcing applications; Web application composition and mashups; Social Web applications; Semantic Web applications; Web of Things applications; big data and data analytics; and security, privacy, and identity.

Web Engineering - Maxim Bakaev 2019-04-26 This book constitutes the refereed proceedings of the 19th International Conference on Web Engineering, ICWE 2019, held in Daejeon, South Korea, in June 2019. The 26 full research papers and 9 short papers presented were carefully reviewed and selected from 106 submissions. Additionally, two demonstrations, four posters, and four contributions to the PhD symposium as well as five tutorials are included in this volume. The papers cover research areas such as Web mining and knowledge extraction, Web big data and Web data analytics, social Web applications and crowdsourcing, Web user interfaces, Web security and privacy, Web programming, Web services and computing, Semantic Web and linked open data applications, and Web application modeling and engineering.

Web Engineering - Maria Bielikova 2020-06-10 This book constitutes the proceedings of the 20th International Conference on Web Engineering, ICWE 2020, which was planned to take place in Helsinki, Finland, during June 9-12, 2020. Due to the corona pandemic the conference changed to a virtual format. The total of 24 full and 10 short contributions presented in this volume were carefully reviewed and selected from 78 submissions. The book also contains 4 PhD and 7 demo papers. The papers were organized in topical sections named: User interface technologies; performance of Web technologies; machine learning; testing of Web applications; emotion detection; location-aware applications; sentiment analysis; open data; liquid Web applications; Web-based learning; PhD symposium; demos and posters.

Current Trends in Web Engineering - Quan Z. Sheng 2013-12-23 This book constitutes the thoroughly refereed post-proceedings of the seven workshops and the PhD Symposium that were co-located with the 13th International Conference on Web Engineering, ICWE 2013, held in Aalborg, Denmark, in July 2013. The papers cover research in topics such as social data management; cloud service engineering; agile web development and quality management in...
web engineering.

**Semantic Web Engineering in the Knowledge Society** - Cardoso, Jorge 2008-10-31 “This book lays the foundations for understanding the concepts and technologies behind the Semantic Web” -- Provided by publisher.

**Engineering Web Applications** - Sven Casteley 2009-07-25 Nowadays, Web applications are almost omnipresent. The Web has become a platform not only for information delivery, but also for eCommerce systems, social networks, mobile services, and distributed learning environments. Engineering Web applications involves many intrinsic challenges due to their distributed nature, content orientation, and the requirement to make them available to a wide spectrum of users who are unknown in advance. The authors discuss these challenges in the context of well-established engineering processes, covering the whole product lifecycle from requirements engineering through design and implementation to deployment and maintenance. They stress the importance of models in Web application development, and they compare well-known Web-specific development processes like WebML, WSDM and OOHDM to traditional software development approaches like the waterfall model and the spiral model.

**Current Trends in Web Engineering** - Florian Daniel 2015-09-14 This book constitutes the thoroughly refereed post-conference proceedings of Current Trends in Web Engineering, ICWE Workshops 2015 which was held in June 2015 in Rotterdam, The Netherlands. The 16 revised full papers were selected form 23 submissions and cover topics on natural language processing for informal text, pervasive Web technologies, trends and challenges, and mining in the social Web.

**Web Engineering** - Florian Daniel 2013-07-19 This book constitutes the refereed proceedings of the 13th International Conference on Web Engineering, ICWE 2013, held in Aalborg, Denmark, in July 2013. The 21 full research papers, 4 industry papers, and 11 short papers presented were carefully reviewed and selected from 92 submissions. The scientific program was completed with 7 workshops, 6 demonstrations and posters. The papers cover a wide spectrum of topics, such as, among others: web mining and knowledge extraction, semantic and linked data management, crawling and web research, model-driven web engineering, component-based web engineering, Rich Internet Applications (RIAs) and client-side programming, web services, and end-user development.

**Web Engineering** - San Murugesan 2003-06-29 This book gives a unique account of the emerging field of Web engineering by presenting 25 thoroughly reviewed papers drawn from two recent workshops on the topic together with introductory and motivating surveys and a list of Web engineering resources in chapters on - Web engineering: introduction and perspectives - Web-based system development: process and methodology - Managing information on the Web - Development tools, skills, and case studies - Performance, testing, and Web metrics - Web maintenance and reuse. The book will appeal equally to researchers, students, professionals and practitioners in industry interested in developing, maintaining, and using advanced Web-based systems and applications.

**Web Business Engineering** - Nick V. Flor 2001 As a Web development professional, you have significant knowledge of Internet and Web technologies, but what do you know about business strategy? You can produce a Web site that incorporates eye-catching graphics and sophisticated features, but does it truly serve the organizations needs? Web Business Engineering is your bridge from technical understanding to business savvy. Web practitioners and entrepreneurs will learn to approach the Web as a technology that serves business needs, not a technology in search of a business need. This book shows you, step-by-step, how to identify those needs and then create a profitable Web site that truly adds value to the business. The author presents a new methodology--web business engineering--that combines business concepts with engineering-strength design and analysis techniques. He demonstrates how to use this methodology to analyze an organizations offline needs, determine where the Web opportunities lie, and create an effective online solution. You will find coverage of such topics as: *Business 101--idea-to-product--marketing, sales, and support *How information supports the value chain for physical and knowledge-based products *Competiti

**Current Trends in Web Engineering** - In-Young Ko 2020-12-11 This book constitutes the thoroughly refereed post-workshop proceedings of the 20th International Conference on Web Engineering, ICWE 2020, held in Helsinki, Finland, in June 2020. The 4 revised full 4 revised short papers were selected from 10 submissions. The workshops complement the main conference and explore new trends on core topics of Web engineering and provide an open discussion space combining solid theory work with practical on-the-field experience. The workshop committee accepted three workshops for publication in this volume: 1st International Workshop on the Web of Things for Humans (WoT4H 2020), 2nd Semantics and the Web for Transport workshop (Sem4Tra 2020), and 6th International Workshop on Knowledge Discovery on the Web (KDWEB 2020). The conference was held virtually due to the COVID-19 pandemic.