Method Engineering Principles Of Method Construction And Tool Support Ifip Advances In Information And Communication Technology

Readership: Graduate students, researchers, programmers, managers and academics in software engineering and knowledge engineering.Key Features: There are no other handbooks in the market in this area.Keywords: Advanced Topics in Database Research is a series of books on the fields of database, software engineering, and systems analysis and design. They feature the latest research ideas and topics on how to enhance current database systems, improve information storage, refine existing database models, and develop advanced applications. Advanced Topics in Database Research, Volume 5 is a part of this series. Advanced Topics in Database Research, Volume 5 presents the latest research ideas and topics on database systems and applications, and provides insights into important developments in the field of database and database management. This book describes the capabilities and features of new technologies and methodologies, and presents state-of-the-art research ideas, with an emphasis on theoretical issues regarding databases and database management.

Provides Step-by-Step Instruction Structural Analysis: Principles, Methods and Modelling outlines the fundamentals involved in analyzing engineering structures, and effectively presents the derivations used for analytical and numerical formulations. This text explains practical and relevant concepts, and lays down the foundation for a solid mathematical background that incorporates MATLAB® (no prior knowledge of MATLAB is necessary), and includes numerous worked examples. Effectively Analyze Engineering Structures Divided into four parts, the text focuses on the analysis of statically determinate structures. It evaluates basic concepts and procedures, examines the classical methods for the analysis of statically indeterminate structures, and explores the stiffness method of analysis that reinforces most computer applications and commercially available structural analysis software. In addition, it covers advanced topics that include the finite element method, structural stability, and problems involving material nonlinearity. MATLAB® files for selected worked examples are available from the book's website. Resources available from CRC Press for lecturers adopting the book include: A solutions manual for all the problems posed in the book Nearly 2000 PowerPoint presentations suitable for use in lectures for each chapter in the book Revision videos of selected lectures with added narration Figure slides Structural Analysis: Principles, Methods and Modelling exposes civil and structural engineering undergraduates to the essentials of structural analysis, and serves as a resource for students and practicing professionals in solving a range of engineering problems.

LISTENING TO MUSIC is designed to help develop and refine the listening skills of your students and inspire a lifelong appreciation of music. Author and award-winning scholar-teacher Craig Wright, who has taught Music Appreciation courses for more than 35 years, is consistently praised by reviewers and other professors for his unparalleled accuracy and his clear, direct, conversational style. Throughout the book, Wright connects with today's students by incorporating comparisons between pop and classical music and by using examples from popular artists to illustrate core concepts. This chronological text succinctly covers traditional Western music from medieval to modern, discussing examples from each historical period within their social contexts and the construction of each piece. Later chapters cover popular music, its impact on musical globalization, and comparisons between Western and non-Western music. LISTENING TO MUSIC is the only text that provides Craig Wright's own Listening Exercises, in the book and online, which help students focus on important musical elements and episodes. A free CD, packaged with each printed copy of the text, includes all of the musical examples for the Part 1 listening exercises. A full set of optional online student resources includes Active Listening Guides, streaming music, an interactive eBook, quizzing, and more--all to challenge your students. All of the music discussed in the text is also available on CD and on Sony Music download cards. Available with InfoTrac Student Collections http://gocengage.com/infotrac.

The objective of this e-book is to try to clarify the connection between the notions of goal and business process. The issue is a follow-up to the discussions at the Workshop on Goal-Oriented Business Process Modelling held in London on 2 September 2002. The papers cover a wide spectrum of topics, related to the notions of goals in the business process domain.

This book constitutes the refereed proceedings of the 4th IFIP WG 8.1 Working Conference on Method Engineering, ME 2011, held in Paris, France, in April 2011. The 13 revised full papers and 6 short papers presented together with the abstracts of two keynote talks were carefully reviewed and selected from 30 submissions. The papers are organized in topical sections on situated method engineering, method engineering foundations, customized methods, tools for method engineering, new trends to build methods, and method engineering services.

Over the last decade, Method Engineering, defined as the engineering discipline to design, construct and adapt methods, including supportive tools, has emerged as the research and application area for using methods for systems development. This book contains the papers from the IFIP Working Group 8.1 conference on Situational Method Engineering.

This volume is comprised of the proceedings of the 13th International Conference on Information Systems Development held August 26th-28th, 2004, at Vilnius Gediminas Technical University, Vilnius, Lithuania. The aim of this volume is to provide a forum for the research and practices addressing current issues associated with Information Systems Development (ISD). Every day, new technologies, applications, and methods raise the standards for the quality of systems expected by organizations as well as end users. All are becoming dependent on systems reliability, scalability, and performance. Thus, it is crucial to exchange ideas and experiences, and to stimulate exploration of new solutions. This proceedings provides a forum for both technical and organizational issues.

This Three-Volume-Set constitutes the refereed proceedings of the Second International Conference on Software

Engineering and Computer Systems, ICSECS 2011, held in Kuantan, Malaysia, in June 2011. The 190 revised full papers presented together with invited papers in the three volumes were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on software engineering; network; bioinformatics and e-health; biometrics technologies; Web engineering; neural network; parallel and distributed; e-learning; ontology; image processing; information and data management; engineering; software security; graphics and multimedia; databases; algorithms; signal processing; software design/testing; e- technology; ad hoc networks; social networks; software process modeling; miscellaneous topics in software engineering and computer systems.

This volume presents papers from the 10th Working Conference of the IFIP WG 8.6 on the adoption and diffusion of information systems and technologies. It explores the dynamics of how some technological innovation efforts succeed while others fail. The book looks to expand the research agenda, paying special attention to the areas of theoretical perspectives, methodologies, and organizational sectors.

This collection offers new research findings, innovations, and industrial technological developments in extractive metallurgy, energy and environment, and materials processing. Technical topics included in the book are thermodynamics and kinetics of metallurgical reactions, electrochemical processing of materials, plasma processing of materials, composite materials, ionic liquids, thermal energy storage, energy efficient and environmental cleaner technologies and process modeling. These topics are of interest not only to traditional base ferrous and non-ferrous metal industrial processes but also to new and upcoming technologies, and they play important roles in industrial growth and economy worldwide.

New for the third edition, chapters on: Complete Exercise of the SE Process, System Science and Analytics and The Value of Systems Engineering The book takes a model-based approach to key systems engineering design activities and introduces methods and models used in the real world. This book is divided into three major parts: (1) Introduction, Overview and Basic Knowledge, (2) Design and Integration Topics, (3) Supplemental Topics. The first part provides an introduction to the issues associated with the engineering of a system. The second part covers the critical material required to understand the major elements needed in the engineering design of any system: requirements, architectures (functional, physical, and allocated), interfaces, and qualification. The final part reviews methods for data, process, and behavior modeling, decision analysis, system science and analytics, and the value of systems engineering. Chapter 1 has been rewritten to integrate the new chapters and updates were made throughout the original chapters. Provides an overview of modeling, modeling methods associated with SysML, and IDEF0 Includes a new Chapter 12 that provides a comprehensive review of the topics discussed in Chapters 6 through 11 via a simple system – an automated soda machine Features a new Chapter 15 that reviews General System Theory, systems science, natural systems, cybernetics, systems thinking, quantitative characterization of systems, system dynamics, constraint theory, and Fermi problems and guesstimation Includes a new Chapter 16 on the value of systems engineering with five primary value propositions: systems as a goal-seeking system, systems engineering as a communications interface, systems engineering to avert showstoppers, systems engineering to find and fix errors, and systems engineering as risk mitigation The Engineering Design of Systems: Models and Methods, Third Edition is designed to be an introductory reference for professionals as well as a textbook for senior undergraduate and graduate students in systems engineering.

A selection of 50 papers presented at CAA2016. Papers are grouped under the following headings: Ontologies and Standards; Field and Laboratory Data Recording and Analysis; Archaeological Information Systems; GIS and Spatial Analysis; 3D and Visualisation; Complex Systems Simulation; Teaching Archaeology in the Digital Age.

Principles of Scientific Methods focuses on the fundamental principles behind scientific methods. The book refers to "science" in a broad sense, including natural science, physics, mathematics, statistics, social science, political science, and engineering science. A principle is often abstract and has broad applicability while a method is usually

interested in emerging knowledge, techniques and methods.

th CAiSE 2004 was the 16 in the series of International Conferences on Advanced Information Systems Engineering. In the year 2004 the conference was hosted by the Faculty of Computer Science and Information Technology, Riga Technical University, Latvia. Since the late 1980s, the CAiSE conferences have provided a forum for the presentation and exchange of research results and practical experiences within the ?eld of Information Systems Engineering. The conference theme of CAiSE 2004 was Knowledge and Model Driven Information Systems Engineering for Networked Organizations. Modern businesses and IT systems are facing an ever more complex en- ronment characterized by openness, variety, and change. Organizations are - coming less self-su?cient and increasingly dependent on business partners and other actors. These trends call for openness of business as well as IT systems, i.e. the ability to connect and interoperate with other systems. Furthermore, organizations are experiencing ever more variety in their business, in all c- ceivable dimensions. The di?erent competencies required by the workforce are multiplying. In the same way, the variety in technology is overwhelming with a multitude of languages, platforms, devices, standards, and products. Moreover, organizations need to manage an environment that is constantly changing and where lead times, product life cycles, and partner relationships are shortening.

Thedemandofhavingtoconstantlyadaptan IT tochangingtechnologiesandbu- ness practices has resulted in the birth of new ideas which may have a profound impact on the information systems engineering practices in future years, such as autonomic computing, component and services marketplaces and dynamically generated software.

The 6th InternationalConference on Cooperative Design, Visualization and - gineering CDVE 2009 was held in central Europe - Luxembourg. Participants from ?ve continents came together to celebrate this annual event.

Thepaperspublishedintheconferenceinthisvolumere?ectthenewprogress in the following aspect. Research in developing cooperative applications is currently focusing on two directions. One is the cooperation in the software development process and the other is the variety of the targeted cooperative software products. Many papers address how to facilitate cooperation in the software engineering process p- ticularly global software engineering. The importance of sharing information in cooperation is emphasized by the authors. For example, papers that addressed the developmentof sharing mental models, tools for easilyshared projects,sh- ing links for cross-media information spaces, sharing resources and transfer of knowledge among team members etc. have attracted special attention. Many papers presented in this volume are the research results of tackling problems in developing a great variety of cooperative software products. The targeted systems are cooperative support for music creation, cooperative process m- agement systems, cooperative visualization systems for geographic information, cooperative cultural information

sharing platforms, cooperative reasoning s- tems, cooperative sensor networks for environment monitoring, remote coop- ative video vehicle monitoring systems etc. Another aspect of the papers in this volume is dealing with the problems in ?ner phases in the cooperative product production life cycle. The topics addressed range from partner selection for - operation at the beginning, requirement gathering, requirement negotiation, to cooperativedesign, production to cooperative testing, and ?nally to cooperative system operation.

This classic book covers the solution of differential equations in science and engineering in such as way as to provide an introduction for novices before progressing toward increasingly more difficult problems. The Method of Weighted Residuals and Variational Principles describes variational principles, including how to find them and how to use them to construct error bounds and create stationary principles. The book also illustrates how to use simple methods to find approximate solutions, shows how to use the finite element method for more complex problems, and provides detailed information on error bounds. Problem sets make this book ideal for self-study or as a course text.

Information systems have become the backbone of all kinds of organizations - day. In almost every sector – manufacturing, education, health care, government and businesses large and small – information systems are relied upon for - eryday work, communication, information gathering and decision-making. Yet, the in?exibilities in current technologies and methods have also resulted in poor performance, incompatibilities and obstacles to change. As many organizations are reinventing themselves to meet the challenges of global competition and e-commerce, there is increasing pressure to develop and deploy new technologies that are ?exible, robust and responsive to rapid and unexpected change. Agent concepts hold great promise for responding to the new realities of - formation systems. They o?er higher-level abstractions and mechanisms which address issues such as knowledge representation and reasoning, communication, coordination, cooperation among heterogeneous and autonomous parties, p- ception, commitments, goals, beliefs, intentions, etc., all of which need conc- tual modelling. On the one hand, the concrete implementation of these concepts can lead to advanced functionalities, e.g., in inference-based query answering, transaction control, adaptive work ?ows, brokering and integration of disparate information sources, and automated communication processes. On the other hand, their rich representational capabilities allow for more faithful and ?- ible treatments of complex organizational processes, leading to more e?ective requirements analysis and architectural/detailed design. Batcheller Collection.

This book constitutes the thoroughly refereed post-proceedings of the 7th International Bi-Conference Workshop on Agent-Oriented Information Systems, AOIS 2005, held in Utrecht, Netherlands, in July 2005 and in Klagenfurt, Austria, in October 2005. The 19 revised full papers are organized in topical sections on agent behavior, communications and reasoning, methodologies and ontologies, agent-oriented software engineering, as well as applications.

Used to train generations of social scientists, this thoroughly updated classic text covers the latest research techniques and designs. Applauded for its comprehensive coverage, the breadth and depth of content is unparalleled. Through a multi-methodology approach, the text guides readers toward the design and conduct of social research from the ground up. Explained with applied examples useful to the social, behavioral, educational, and organizational sciences, the methods described are intended to be relevant to contemporary researchers. The underlying logic and mechanics of experimental, quasi-experimental, and non-experimental research strategies are discussed in detail. Introductory chapters covering topics such as validity and reliability furnish readers with a firm understanding of foundational concepts. Chapters dedicated to sampling, interviewing, questionnaire design, stimulus scaling, observational methods, content analysis, implicit measures, dyadic and group methods, and meta-analysis provide coverage of these essential methodologies. The book is noted for its: -Emphasis on understanding the principles that govern the use of a method to facilitate the researcher's choice of the best technique for a given situation. - Use of the laboratory experiment as a touchstone to describe and evaluate field experiments, correlational designs, quasi experiments, evaluation studies, and survey designs. -Coverage of the ethics of social research including the power a researcher wields and tips on how to use it responsibly. The new edition features: -A new co-author, Andrew Lac, instrumental in fine tuning the book's accessible approach and highlighting the most recent developments at the intersection of design and statistics. -More learning tools including more explanation of the basic concepts, more research examples, tables, and figures, and the addition of bold faced terms, chapter conclusions, discussion questions, and a glossary. -Extensive revision of chapter (3) on measurement reliability theory that examines test theory, latent factors, factor analysis, and item response theory. -Expanded coverage of cutting-edge methodologies including mediation and moderation, reliability and validity, missing data, and more physiological approaches such as neuroimaging and fMRIs. -A new web based resource package that features Power Points and discussion and exam questions for each chapter and for students chapter outlines and summaries, key terms, and suggested readings. Intended as a text for graduate or advanced undergraduate courses in research methods (design) in psychology, communication, sociology, education, public health, and marketing, an introductory undergraduate course on research methods is recommended.

This book constitutes the refereed proceedings of the IFIP WG 8.6 International Working Conference on Transfer and Diffusion of IT, TDIT 2013, held in Bangalore, India, in June 2013. The 35 revised full papers presented together with an invited paper, 12 short papers and 3 poster papers were carefully reviewed and selected from 65 submissions. The full papers are organized in the following topical sections: IS success and failure; studies of IT adoption; software development; IT in the public sector; and theory and methods.

The Observational Method in ground engineering is a continuous, managed, integrated process of design, construction control, monitoring and review which enables previously defined modifications to be incorporated during or after construction as appropriate.

th The 11 Working Conference of IFIP WG 8.6, Open-IT Based Innovation: Moving Towards Cooperative IT Transfer and Knowledge Diffusion, organized in Madrid in October 22–24, 2008, follows the series started in Oslo in 1995 and continues in the footprints of the past year's conference in Manchester. This year, although the Madrid Conference addresses the usual topics covered in previous WG8.6 conferences, the emphasis is on the issue of open innovation and its relationships with technology transfer and diffusion in the field of information technology. This issue is deeply modifying the way that knowledge is generated, shared, transferred, diffused, and used across the world as a side effect of globalization. It affects the organizational structure, partnerships, roles assumed by stakeholders, and technology transfer and diffusion models and instruments. Industry, academia, and governments are simultaneously concerned. Although the concept applies to all industrial sectors, IT companies were early innovators. The analysis of the contents of this book allows the identification of some trends in technology transfer and diffusion

issues as a part of the innovation process. The same problem is addressed in very different ways and extrapolation is not straightforward. Even innovation terminology is not clearly shared by different subcultures in the field.

Software -- Software Engineering.

While previously available methodologies for software – like those published in the early days of object technology – claimed to be appropriate for every conceivable project, situational method engineering (SME) acknowledges that most projects typically have individual characteristics and situations. Thus, finding the most effective methodology for a particular project needs specific tailoring to that situation. Such a tailored software development methodology needs to take into account all the bits and pieces needed for an organization to develop software, including the software process, the input and output work products, the people involved, the languages used to describe requirements, design, code, and eventually also measures of success or failure. The authors have structured the book into three parts. Part I deals with all the basic concepts, terminology and overall ideas underpinning situational method engineering. As a summary of this part, they present a formal meta-model that enables readers to create their own quality methods and supporting tools. In Part II, they explain how to implement SME in practice, i.e., how to find method components and put them together and how to evaluate the resulting method. For illustration, they also include several industry case studies of customized or constructed processes, highlighting the impact that high-quality engineered methods can have on the success of an industrial software development. Finally, Part III summarizes some of the more recent and forward-looking ideas. This book presents the first summary of the state of the art for SME. For academics, it provides a comprehensive conceptual framework and discusses new research areas. For lecturers, thanks to its step-by-step explanations from basics to the customization and quality assessment of constructed methods, it serves as a solid basis for comprehensive courses on the topic. For industry methodologists, it offers a reference guide on features and technologies to consider when developing in-house software development methods or customising and adopting off-the-shelf ones.

Today, reliable software systems are the basis of any business or company. The continuous further development of those systems is the central component in software evolution. It requires a huge amount of time- man power- as well as financial resources. The challenges are size, seniority and heterogeneity of those software systems. Christian Wagner addresses software evolution: the inherent problems and uncertainties in the process. He presents a model-driven method which leads to a synchronization between source code and design. As a result the model layer will be the central part in further evolution and source code becomes a by-product. For the first time a model-driven procedure for maintenance and migration of software systems is described. The procedure is composed of a model-driven reengineering and a model-driven migration phase. The application and effectiveness of the procedure are confirmed with a reference implementation applied to four exemplary systems.

Annotation. The Lyee International Workshop (Lyee-W02) is a means for presenting the results of the Lyee International research project, oriented for new software generation techniques based on Lyee technologies. Lyee-W02 will help to build a forum for exchanging ideas and experiences in the field of new directions on software development methodologies and its tools and techniques. Lyee methodology captures the essence of the innovations, controversies, challenges, and possible solutions of the software industry. This theory is born from experience and it is the time to stimulate the academic research on software science initiated from experience to theory through this workshop and its coming series.

This book covers many important aspects of applied chemistry and chemical engineering, focusing on three main aspects: principles, methodology and evaluation methods. It presents a selection of chapters on recent developments of theoretical, mathematical, and computational conceptions, as well as chapters on modeling and simulation of specific research themes covering applied chemistry and chemical engineering. This book attempts to bridge the gap between classical analysis and modern applications. Covering a selection of topics within the field of applied chemistry and chemical engineering, the book is divided into several parts: polymer chemistry and technology bioorganic and biological chemistry nanoscale technology selected topics This book is the second of the two-volume series Applied Chemistry and Chemical Engineering. The first volume is Volume 1: Mathematical and Analytical Techniques.

Software engineering requires specialized knowledge of a broad spectrum of topics, including the construction of software and the platforms, applications, and environments in which the software operates as well as an understanding of the people who build and use the software. Offering an authoritative perspective, the two volumes of the Encyclopedia of Software Engineering cover the entire multidisciplinary scope of this important field. More than 200 expert contributors and reviewers from industry and academia across 21 countries provide easy-to-read entries that cover software requirements, design, construction, testing, maintenance, configuration management, quality control, and software engineering management tools and methods. Editor Phillip A. Laplante uses the most universally recognized definition of the areas of relevance to software engineering, the Software Engineering Body of Knowledge (SWEBOK®), as a template for organizing the material. Also available in an electronic format, this encyclopedia supplies software engineering students, IT professionals, researchers, managers, and scholars with unrivaled coverage of the topics that encompass this ever-changing field. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062; (E-mail) online.sales@tandf.co.uk

Offers instruction in manufacturing engineering management strategies to help the student optimize future manufacturing processes and procedures. This edition includes innovations that have changed management's approach toward the uses of manufacturing engineering within the business continuum.

This book, published by Springer since 1979, presents state-of-the-art discussions in modern genetics and genetic engineering. This focus affirms a commitment to publish important reviews of the broadest interest to geneticists and their colleagues in affiliated disciplines. Recent volumes have covered gene therapy research, genetic mapping, plant science and technology, transport protein biochemistry, and viral vectors in gene therapy, among other topics.

The three-volume set LNCS 12476 - 12478 constitutes the refereed proceedings of the 9th International Symposium on Leveraging Applications of Formal Methods, ISoLA 2020, which was planned to take place during October 20–30, 2020, on Rhodes, Greece. The event itself was postponed to 2021 due to the COVID-19 pandemic. The papers presented were carefully reviewed and selected for inclusion in the proceedings. Each volume focusses on an individual topic with topical section headings within the volume: Part I, Verification Principles: Modularity and (De-)Composition in Verification; X-by-Construction: Correctness meets Probability; 30 Years of Statistical Model Checking; Verification and Validation of Concurrent and Distributed Systems. Part II, Engineering Principles: Automating Software Re-Engineering; Rigorous Engineering of Collective Adaptive Systems. Part III, Applications: Reliable Smart Contracts: State-of-the-art, Applications, Challenges and Future Directions; Automated Verification of Embedded Control Software; Formal methods for DIStributed COmputing in future RAILway systems.

This book illustrates how goal-oriented, automated measurement can be used to create Lean organizations and to facilitate the development of Lean software, while also demonstrating the practical implementation of Lean software development by combining tried and trusted tools.

In order to be successful, a Lean orientation of software development has to go hand in hand with a company's overall business strategy. To achieve this, two interrelated aspects require special attention: measurement and experience management. In this book, Janes and Succi provide the necessary knowledge to establish "Lean software company thinking," while also exploiting the latest approaches to software measurement. A comprehensive, company-wide measurement approach is exactly what companies need in order to align their activities to the demands of their stakeholders, to their business strategy, etc. With the automatic, non-invasive measurement approach proposed in this book, even small and medium-sized enterprises that do not have the resources to introduce heavyweight processes will be able to make their software development processes considerably more Lean. The book is divided into three parts. Part I, "Motivation for Lean Software Development," explains just what "Lean Production" means, why it can be advantageous to apply Lean concepts to software engineering, and which existing approaches are best suited to achieving this. Part II, "The Pillars of Lean Software Development," presents the tools needed to achieve Lean software development: Non-invasive Measurement, the Goal Question Metric approach, and the Experience Factory. Finally, Part III, "Lean Software Development in Action," shows how different tools can be combined to enable Lean Thinking in software development. The book primarily addresses the needs of all those working in the field of software engineering who want to understand how to establish an efficient and effective software development process. This group includes developers, managers, and students pursuing an M.Sc. degree in software engineering.

Covers research in the area of systems analysis and design practices and methodologies.

This book constitutes the proceedings of two events held at the CAiSE conference and relating to the areas of enterprise, business process and information systems modeling: The 20th International Conference on Business Process Modeling, Development and Support, BPMDS 2019, and the 24th International Conference on Evaluation and Modeling Methods for Systems Analysis and Development, EMMSAD 2019. The conferences took place in Rome, Italy, in June 2019. The 7 full and 2 short papers accepted for BPMDS were carefully reviewed and selected from a total of 20 submissions; for EMMSAD 15 full papers were accepted from 38 submissions. The papers were organized in topical sections named as follows: BPMDS: large and complex business process modeling and development; execution and understandability of declarative process models; novel approaches in enterprise modeling; transformative business process modeling, development, and support. EMMSAD: foundations of modeling and method engineering; enterprise process and capability modeling; information systems and requirements modeling; domain-specific and ontology modeling; and evaluation of modeling approaches.

The XP conference series established in 2000 was the first conference dedicated to agile processes in software engineering. The idea of the conference is to offer a unique setting for advancing the state of the art in the research and practice of agile processes. This year's conference was the ninth consecutive edition of this international event. The conference has grown to be the largest conference on agile software development outside North America. The XP conference enjoys being one of those conferences that truly brings practitioners and academics together. About 70% of XP participants come from industry and the number of academics has grown steadily over the years. XP is more of an experience rather than a regular conference. It offers several different ways to interact and strives to create a truly collaborative environment where new ideas and exciting findings can be presented and shared. For example, this year's open space session, which was "a conference within a conference", was larger than ever before. Agile software development is a unique phenomenon from several perspectives.

Method Engineering focuses on the design, construction and evaluation of methods, techniques and support tools for information systems development It addresses a number of important topics, including: method representation formalisms; meta-modelling; situational methods; contingency approaches; system development practices of method engineering; terminology and reference models; ontologies; usability and experience reports; and organisational support and impact.

Method EngineeringPrinciples of method construction and tool supportSpringer

This book presents a coherent and well-balanced survey of recent advances in software engineering approaches to the design and analysis of realistic large-scale multi-agent systems (MAS). The chapters included are devoted to various techniques and methods used to cope with the complexity of real-world MAS. The power of agent-based software engineering is illustrated using examples that are representative of successful applications. The 16 thoroughly reviewed and revised full papers are organized in topical sections on agent methodologies and processes, requirements engineering and software architectures, modeling languages, and dependability and coordination. Most of the papers were initially presented at the 3rd International Workshop on Software Engineering for Large-Scale Multi-agent Systems, SELMAS 2004, held in Edinburgh, UK in May 2004 in association with ICSE 2004. Other papers were invited to complete coverage of all relevant aspects.