

PROCESS MODELING WITH ARIS A PRACTICAL INTRODUCTION

PROCESS MODELING WITH ARIS ARIS — BUSINESS PROCESS MODELING BUSINESS PROCESS MODELLING WITH ARIS THE PRACTICE OF ENTERPRISE MODELING ARCHITECTURE OF INTEROPERABLE INFORMATION SYSTEMS INFORMATION AND PROCESS INTEGRATION IN ENTERPRISES THE MAKING OF INFORMATION SYSTEMS BUSINESS INFORMATION SYSTEMS ADVANCED SOA TOOLS AND APPLICATIONS ARIS DESIGN PLATFORM SUPPLY CHAIN PERFORMANCE ARCHITECTURE OF INTEGRATED INFORMATION SYSTEMS JOURNAL OF ECONOMIC LITERATURE ARIS DESIGN PLATFORM COMPUTING JAPAN KNOWLEDGE ACQUISITION, MODELING AND MANAGEMENT THE UNIFIED MODELING LANGUAGE INFORMATION MODELING IN THE NEW MILLENNIUM ARIS DESIGN PLATFORM PROCESS MODELING HEINRICH SEIDLMEIER AUGUST-WILHELM SCHEER ROB DAVIS ULRICH FRANK JRG ZIEMANN TOSHIRO WAKAYAMA KARL E. KURBEL WITOLD ABRAMOWICZ STANISZAW AMBROSKIEWICZ ROB DAVIS VALERIE BOTTA-GENOULAZ AUGUST-WILHELM SCHEER ROB DAVIS ENRIC PLAZA MARTIN SCHADER MATTI ROSSI ROB DAVIS MORTON M. DENN

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THIS TEXTBOOK HELPS BEGINNERS LEARN ARIS AND ADVANCED USERS WILL FIND USEFUL AND VALUABLE HINTS IT COMPLEMENTS EXISTING TRAINING AS WELL AS SELF STUDIES FIRST THE READER LEARNS THE BASICS OF PROCESS ORGANIZATION AS WELL AS THE ROLES AND EFFECTS OF COMPUTERS IN ENTERPRISES NEXT THE ARIS METHODOLOGIES ARE EXPLAINED FINALLY THE ESSENTIAL CONCEPT THE ARIS VIEWS ORGANIZATION FUNCTION DATA AND PROCESS ARE EXPLAINED AND THE MOST COMMON MODELS ARE INTRODUCED THE BOOK OFFERS MANY PRACTICAL MODELING EXAMPLES EXERCISES AND SOLUTIONS

THIS BOOK DESCRIBES IN DETAIL HOW ARIS METHODS MODEL AND IDENTIFY BUSINESS PROCESSES BY MEANS OF THE UML UNIFIED MODELING LANGUAGE LEADING TO AN INFORMATION MODEL THAT SERVES AS THE BASIS FOR A SYSTEMATIC AND INTELLIGENT DEVELOPMENT OF APPLICATION SYSTEMS MULTIPLE REAL WORLD EXAMPLES USING SAP R3 ILLUSTRATE ASPECTS OF BUSINESS PROCESS MODELING INCLUDING METHODS OF KNOWLEDGE MANAGEMENT IMPLEMENTATION OF WORKFLOW SYSTEMS AND STANDARD SOFTWARE SOLUTIONS AND THE DEPLOYMENT OF ARIS METHODS

THIS PRACTICAL BOOK DESCRIBES THE KEY OPERATIONS OF ARIS TOOLSET THE MARKET LEADING BUSINESS PROCESS MODELLING TOOL BASED ON HIS EXPERIENCE OF USING ARIS IN BRITISH TELECOMMUNICATIONS PLC THE AUTHOR DESCRIBES PRACTICAL WAYS OF USING THE TOOL USING SCREEN SHOTS AND PLENTY OF PRACTICAL EXAMPLES ROB DAVIS SHOWS HOW ARIS CAN BE USED TO MODEL BUSINESS PROCESSES THROUGHOUT THE BOOK DAVIS PROVIDES READERS WITH TIPS AND SHORT CUTS ENABLING USERS TO START MODELLING QUICKLY AND EFFECTIVELY HE ALSO PROVIDES INSIGHTS INTO THE ARIS CONCEPTS AND TELLS READERS ABOUT THE BENEFITS AND TRADE OFFS OF USING THE TOOL IN ALTERNATIVE WAYS UNLIKE OTHER BOOKS THIS PRACTICAL GUIDE TACKLES ISSUES

FOUND IN REAL PROJECTS

THIS VOLUME CONSTITUTES THE PROCEEDINGS OF THE 7TH IFIP WG 8.1 CONFERENCE ON THE PRACTICE OF ENTERPRISE MODELING HELD IN NOVEMBER 2014 IN MANCHESTER UK THE FOCUS OF THE POEM CONFERENCE SERIES IS ON ADVANCES IN THE PRACTICE OF ENTERPRISE MODELING THROUGH A FORUM FOR SHARING KNOWLEDGE AND EXPERIENCES BETWEEN THE ACADEMIC COMMUNITY AND PRACTITIONERS FROM INDUSTRY AND THE PUBLIC SECTOR THE 16 FULL AND FOUR SHORT PAPERS ACCEPTED WERE CAREFULLY REVIEWED AND SELECTED FROM 39 SUBMISSIONS THEY REFLECT DIFFERENT TOPICS OF ENTERPRISE MODELING INCLUDING BUSINESS PROCESS MODELING ENTERPRISE ARCHITECTURE INVESTIGATION OF ENTERPRISE MODELING METHODS REQUIREMENTS ENGINEERING AND SPECIFIC ASPECTS OF ENTERPRISE MODELING

THE AUTOMATION OF CROSS ORGANIZATIONAL BUSINESS PROCESSES IS ONE OF THE MOST IMPORTANT TRENDS OF THE INFORMATION AGE INSTEAD OF A TIGHT INTEGRATION HOWEVER COLLABORATING ORGANIZATIONS RATHER STRIVE FOR A LOOSE COUPLING OF THEIR INFORMATION SYSTEMS SUPPORTING THIS OBJECTIVE THE ARCHITECTURE OF INTEROPERABLE INFORMATION SYSTEMS AIOS REPRESENTS A MEANS FOR THE COMPREHENSIVE DESCRIPTION OF LOOSELY COUPLED INTEROPERATING INFORMATION SYSTEMS AND FOR THE SYSTEMATIC MODEL BASED ENACTMENT OF COLLABORATIVE BUSINESS PROCESSES TO THIS AIM IT COMBINES CONCEPTS FROM THE AREAS OF ENTERPRISE MODELING COLLABORATIVE BUSINESS AND SERVICE ORIENTED COMPUTING AT THE CORE OF THE ARCHITECTURE LIES THE BUSINESS INTEROPERABILITY INTERFACE WHICH DESCRIBES THE INFORMATION SYSTEM BOUNDARIES OF ONE ORGANIZATION TO ITS COLLABORATION PARTNERS AND CONNECTS INTERNAL AND EXTERNAL INFORMATION SYSTEMS DETAILED PROCEDURE MODELS SPECIFY THE USAGE OF THE AIOS ITS APPLICATION TO AN EXAMPLE SCENARIO AS WELL AS PROTOTYPES THAT IMPLEMENT CORE ASPECTS OF THE AIOS EXEMPLIFY THE METHOD THIS BOOK ADDRESSES RESEARCHERS AS WELL AS PRACTITIONERS INTERESTED IN THE AREAS OF ORGANIZATIONAL INTEROPERABILITY AND THE MODELING AND ENACTMENT OF COLLABORATIVE BUSINESS PROCESSES

INFORMATION AND PROCESS INTEGRATION IN ENTERPRISES RETHINKING DOCUMENTS IS A BOLD ATTEMPT TO ADDRESS INFORMATION AND PROCESS INTEGRATION ISSUES AS A SINGLE BODY OF RESEARCH AND PRACTICE THIS BOOK HAS IDENTIFIED THE CONCEPT OF DOCUMENTS AS A COMMON THREAD LINKING THE INTEGRATION ISSUES DOCUMENTS AFTER ALL ARE REPRESENTATIONS OF INFORMATION ALONG WITH REPRESENTATIONS OF THE USAGE OF THE INFORMATION CONTAINED THEREIN RETHINKING THE ROLE OF DOCUMENTS IS THEREFORE CENTRAL TO RE ENGINEERING ENTERPRISES IN THE CONTEXT OF INFORMATION AND PROCESS INTEGRATION THE CHAPTERS OF THIS BOOK ARE BASED ON PAPERS PRESENTED AT THE INTERNATIONAL WORKING CONFERENCE ON INFORMATION AND PROCESS INTEGRATION IN ENTERPRISES IPIC 96 HELD AT MIT ON NOVEMBER 14 AND 15 1996 THE CHAPTERS COVER A RANGE OF ISSUES FROM THE FUTURE ROLE OF DOCUMENTS IN ENTERPRISE INTEGRATION TO EMERGING MODELS OF BUSINESS PROCESSES AND INFORMATION USE TO PRACTICAL EXPERIENCES IN IMPLEMENTING NEW PROCESSES AND TECHNOLOGIES IN REAL WORK ENVIRONMENTS INFORMATION AND PROCESS INTEGRATION IN ENTERPRISES RETHINKING DOCUMENTS IS SUITABLE AS A SECONDARY TEXT FOR A GRADUATE LEVEL COURSE ON INFORMATION TECHNOLOGY

INFORMATION SYSTEMS ARE THE BACKBONE OF ANY ORGANIZATION TODAY SUPPORTING ALL MAJOR BUSINESS PROCESSES THIS BOOK DEALS WITH THE QUESTION HOW DO THESE SYSTEMS COME INTO EXISTENCE IT GIVES A COMPREHENSIVE COVERAGE OF MANAGERIAL METHODOLOGICAL AND TECHNOLOGICAL ASPECTS INCLUDING MANAGEMENT DECISIONS BEFORE AND DURING IS DEVELOPMENT ACQUISITION AND IMPLEMENTATION PROJECT MANAGEMENT REQUIREMENTS ENGINEERING AND DESIGN USING UML IMPLEMENTATION TESTING AND CUSTOMIZATION SOFTWARE ARCHITECTURE AND PLATFORMS TOOL SUPPORT CASE TOOLS IDES COLLABORATION TOOLS THE BOOK TAKES INTO ACCOUNT THAT FOR MOST ORGANIZATIONS TODAY INHOUSE DEVELOPMENT IS ONLY ONE OF SEVERAL OPTIONS TO OBTAIN AN IS A GOOD DEAL OF IS DEVELOPMENT HAS MOVED TO SOFTWARE VENDORS BE IT DOMESTIC OFFSHORE OR MULTINATIONAL SOFTWARE FIRMS SINCE AN INCREASING SHARE OF THIS WORK IS DONE IN ASIA EASTERN EUROPE LATIN AMERICA AND AFRICA THE MAKING OF INFORMATION SYSTEMS IS DISCUSSED WITHIN A GLOBAL CONTEXT

THIS BOOK CONTAINS THE REFERRED PROCEEDINGS OF THE 11TH INTERNATIONAL CONFERENCE ON BUSINESS INFORMATION SYSTEMS BIS 2008 HELD IN INNSBRUCK AUSTRIA IN MAY 2008 THE 41 REVISED FULL PAPERS WERE CAREFULLY REVIEWED AND SELECTED FOR INCLUSION IN THE BOOK THE CONTRIBUTIONS COVER RESEARCH TRENDS AS WELL AS CURRENT ACHIEVEMENTS AND CUTTING EDGE DEVELOPMENTS IN THE AREA OF MODERN BUSINESS INFORMATION SYSTEMS THEY ARE GROUPED IN SECTIONS ON BUSINESS PROCESS MANAGEMENT SERVICE DISCOVERY AND COMPOSITION ONTOLOGIES INFORMATION RETRIEVAL ENTERPRISE RESOURCE PLANNING INTEROPERABILITY MOBILITY AND CONTEXTS WIKIS AND FOLKSONOMIES AND RULES AND SEMANTIC QUERIES

THIS BOOK PRESENTS ADVANCED SOFTWARE DEVELOPMENT TOOLS FOR CONSTRUCTION DEPLOYMENT AND GOVERNANCE OF SERVICE ORIENTED ARCHITECTURE SOA APPLICATIONS NOVEL TECHNICAL CONCEPTS AND PARADIGMS FORMULATED DURING THE RESEARCH STAGE AND DURING DEVELOPMENT OF SUCH TOOLS ARE PRESENTED AND ILLUSTRATED BY PRACTICAL USAGE EXAMPLES HENCE THIS BOOK WILL BE OF INTEREST NOT ONLY TO THEORETICIANS BUT ALSO TO ENGINEERS WHO COPE WITH REAL LIFE PROBLEMS ADDITIONALLY EACH CHAPTER CONTAINS AN OVERVIEW OF RELATED WORK ENABLING COMPARISON OF THE PROPOSED CONCEPTS WITH EXITING SOLUTIONS IN VARIOUS AREAS OF THE SOA DEVELOPMENT PROCESS THIS MAKES THE BOOK INTERESTING ALSO FOR STUDENTS AND SCIENTISTS WHO INVESTIGATE SIMILAR ISSUES

FOLLOWING ON FROM ROB DAVIS SUCCESSFUL INTRODUCTORY BOOK ARIS DESIGN PLATFORM GETTING STARTED WITH BPM ROB NOW COVERS IN DETAIL SOME OF THE MORE ADVANCED CONCEPTS OF USING ARIS BUSINESS ARCHITECT THIS IS A PRACTICAL HOW TO GUIDE AND CONTAINS TIPS TECHNIQUES AND SHORT CUTS GAINED FROM PRACTICAL EXPERIENCE AND EXPLAINS CLEARLY HOW TO USE ARIS AND WHY ARIS IS A POWERFUL TOOL FOR PROCESS MODELING ADVANCED CONCEPTS SUCH AS THE FOLLOWING ARE PRESENTED IN THIS READER FRIENDLY AND CONCISE GUIDE MATRIX EDITOR FIND AND QUERY MODEL GENERATION METHOD FILTERS AND METHOD CHANGES TEMPLATES AND FONTS REPORTS AND SEMANTIC CHECKS MACROS TRANSFORMATIONS DATABASE ADMINISTRATION USER MANAGEMENT THIS EASY TO FOLLOW ADVANCED TEXT IS A MUST HAVE GUIDE AND REFERENCE FOR ALL USERS WHO WANT TO INCREASE THEIR ARIS SKILLS AND FOR THOSE WHO NEED TO UNDERTAKE ADVANCED MODEL AND DATABASE MANAGEMENT

THIS BOOK EXAMINES THE OPPORTUNITIES FOR AND THE EFFECTS AND BENEFITS OF COLLABORATIVE WORKING PRACTICES AND THEIR IMPACT ON SUPPLY CHAIN PERFORMANCE THE BOOK IS ORGANIZED INTO THREE MAIN PARTS FIRST PART FOCUSES ON MODELING THE SUPPLY CHAIN USING CONCEPTUAL FRAMEWORKS TO DESCRIBE THE RELATIONSHIP BETWEEN COLLABORATION AND PERFORMANCE THE SECOND PART EXAMINES THE ISSUES AROUND INFORMATION SYSTEMS ALIGNMENT AND ENSURING THE MANAGEMENT AND COORDINATION OF INTERACTIONS WITH SUPPLIERS AND CUSTOMERS THE FINAL PART OF THE BOOK FOCUSES ON THE VARIOUS DIFFERENT FORMALIZED APPROACHES INCLUDING SIMULATION GAME THEORY EXPERIMENTAL ECONOMICS PETRI NETS AND OBJECT ORIENTED DESIGN TECHNIQUES THAT MAY BE TAKEN TO ANALYZE THE IMPACT OF ANY GIVEN COLLABORATION PROCESS COORDINATION MECHANISM OR DECISION MAKING BEHAVIOR ON SUPPLY CHAIN PERFORMANCE

THE CREATION AND IMPLEMENTATION OF INTEGRATED INFORMATION SYSTEMS INVOLVES A VARIETY OF COLLABORATORS INCLUDING PEOPLE FROM SPECIALIST DEPARTMENTS INFORMATICS EXTERNAL ADVISERS AND MANUFACTURERS THEY NEED CLEAR RULES AND LIMITS WITHIN WHICH THEY CAN PROCESS THEIR INDIVIDUAL SUB TASKS IN ORDER TO ENSURE THE LOGICAL CONSISTENCY OF THE ENTIRE PROJECT AN ARCHITECTURE THEREFORE NEEDS TO BE ESTABLISHED TO DETERMINE THE COMPONENTS THAT MAKE UP THE INFORMATION SYSTEM AND THE METHODS TO BE USED TO DESCRIBE IT WHEREAS PREVIOUSLY INDIVIDUAL DESCRIPTIVE VIEWPOINTS SUCH AS THE FUNCTIONAL REPRESENTATION OR THE DATA MODEL HAVE DOMINATED THIS BOOK CREATES AN ARCHITECTURE WITHIN WHICH THE FUNCTION ORGANIZATION AND DATA VIEWS OF AN INFORMATION SYSTEM THROUGHOUT THE DEVELOPMENT PHASES OF THE REQUIREMENTS DEFINITION DESIGN SPECIFICATION AND THE IMPLEMENTATION DESCRIPTION CAN BE GIVEN EQUAL TREATMENT THE ARIS ARCHITECTURE THEREBY DEVELOPED IS DESCRIBED IN CONCRETE TERMS AS AN INFORMATION MODEL WITHIN THE ENTITY RELATIONSHIP APPROACH THIS INFORMATION MODEL PROVIDES THE BASIS FOR THE SYSTEMATIC AND RATIONAL APPLICATION OF METHODS IN THE DEVELOPMENT OF INFORMATION SYSTEMS FURTHERMORE IT IS ALSO THE BASIS FOR A REPOSITORY IN WHICH THE ENTERPRISE S APPLICATION SPECIFIC DATA ORGANIZATION AND FUNCTION MODELS CAN BE STORED AN ESSENTIAL PROPERTY OF THE ARIS ARCHITECTURE IS THAT THE VARIOUS

IEWS ARE NOT ONLY CONSIDERED IN ISOLATION BUT A CONTROL VIEW ALSO REPRESENTS THEIR RELATIONSHIPS WITH EACH OTHER AS A RESULT NEW DEVELOPMENTS SUCH AS DISTRIBUTED DATABASES OR OBJECT ORIENTED APPROACHES CAN BE INCORPORATED IN THE ARCHITECTURE I WOULD LIKE TO THANK IRENE CAMERON FOR HER CAREFUL TRANSLATION OF THE GERMAN ORIGINAL

THIS PRACTICAL HOW TO GUIDE TO BOTH USING THE ARIS DESIGN PLATFORM AND HOW TO USE IT TO CREATE REAL BUSINESS MODELS FOLLOWS ROB DAVIS HUGELY SUCCESSFUL BUSINESS PROCESS MODELLING WITH ARIS SPRINGER 2001 THIS SECOND VOLUME DESCRIBES THE NEW RELEASE OF ARIS 7 DESIGN PLATFORM INCLUDING ARIS BUSINESS ARCHITECT AND ARIS BUSINESS DESIGNER CONTAINING TIPS TECHNIQUES AND SHORT CUTS GAINED FROM PRACTICAL EXPERIENCE THIS BOOK SHOW HOW TO USE ARIS IN AN EASY WAY SUPPORTING SMART METHODS AND SMART MODELS AND DISPLAYS HOW ARIS CAN BE USED AS A POWERFUL TOOL FOR BPM THIS BOOK IS A MUST HAVE GUIDE AND REFERENCE FOR ALL EXISTING AND NEW USERS OF ARIS

THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE 4TH INTERNATIONAL SYMPOSIUM ON SOLVING IRREGULARLY STRUCTURED PROBLEMS IN PARALLEL IRREGULAR 97 HELD IN PADERBORN GERMANY IN JUNE 1997 THE 18 REVISED FULL PAPERS PRESENTED WERE CAREFULLY SELECTED BY THE PROGRAM COMMITTEE FOR INCLUSION IN THE VOLUME ALSO INCLUDED ARE FULL PAPERS BY THE FIVE INVITED SPEAKERS AMONG THE TOPICS COVERED ARE DISCRETE ALGORITHMS RANDOMIZED METHODS AND APPROXIMATION ALGORITHMS IMPLEMENTATIONS PROGRAMMING ENVIRONMENTS SYSTEMS AND APPLICATIONS AND SCHEDULING AND LOAD BALANCING

THE UNIFIED MODELING LANGUAGE IS THE NEW OFFICIAL OMG STANDARD FOR OBJECT ORIENTED MODELING LANGUAGES THIS VOLUME CONTAINS PAPERS PRESENTED DURING THE 1ST GROOM WORKSHOP ON THE UNIFIED MODELING LANGUAGE UML GROOM GRUNDLAGEN OBJEKTOIENTIERTER MODELLIERUNG IS A WORKING GROUP OF THE GESELLSCHAFT FUR INFORMATIK GI THE GERMAN SOCIETY OF COMPUTER SCIENCE THE PAPERS ARE PRESENTED IN THREE CHAPTERS AS FOLLOWS UML VS OTHER APPROACHES BUSINESS PROCESS MODELING AND APPLICATIONS TECHNICAL ASPECTS AND CONCEPTS RESEARCHERS AND PRACTITIONERS INTERESTED IN OBJECT ORIENTED SOFTWARE DEVELOPMENT ANALYSIS AND DESIGN OF SOFTWARE SYSTEMS AND STANDARDIZATION EFFORTS IN THE FIELD OF OBJECT TECHNOLOGY WILL BENEFIT FROM THIS VOLUME

THIS BOOK REVIEWS THE STATE OF THE ART AND STATE OF THE PRACTICE OF MODELING METHODS AND METHODOLOGIES IN INFORMATION SYSTEMS DEVELOPMENT THE BOOK HAS SECTIONS ON FOUNDATIONS OF INFORMATION MODELING EXTENDED OBJECT ORIENTED MODELING AND INFORMATION SYSTEMS MODELING INFORMATION MODELING IN THE NEW MILLENNIUM ADDRESSES THE GAP BETWEEN TECHNICAL AND BUSINESS ORIENTED MODELING APPROACHES BY PROVIDING AN INTEGRATIVE VIEW OF MODELING DIFFERENT OF FACETS OF ICT AND ORGANIZATIONS

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