

Christopher Popfinger

**Enhanced active databases for federated
information systems**

Doctoral Thesis / Dissertation

Enhanced Active Databases For Federated Information Systems

J Ma



Enhanced Active Databases For Federated Information Systems:

Enhanced Active Databases for Federated Information Systems Christopher Popfinger, 2007-09 Doctoral Thesis
Dissertation from the year 2006 in the subject Computer Science Applied grade 1 0 University of Dusseldorf Heinrich Heine
language English abstract Federated information systems provide access to interrelated data that is distributed over multiple autonomous and heterogeneous data sources The integration of these sources demands for flexible and extensible architectures that balance both the highest possible autonomy and a reasonable degree of information sharing In current federated information systems the integrated data sources do only have passive functionality with regard to the federation However continuous improvements take the functionality of modern databases beyond former limits The significant improvement on which this work is based on is the ability of modern active database systems to execute programs written in a standalone programming language as user defined functions or stored procedures from within their database management systems We introduce Enhanced Active Database Systems as a new subclass of active databases that are able to interact with other components of a federation using external program calls from within triggers We present several concepts and architectures that are specifically developed for Enhanced Active Databases to improve interoperability and consistency in federated information systems As the basic concept we describe Active Event Notifications to provide an information system with synchronous and asynchronous update notifications in real time Based on this functionality Enhanced Active Databases are able to actively participate in global integrity maintenance executing partial constraint checks on interrelated remote data Furthermore we present an architecture for a universal wrapper component that especially supports Active Event Notifications which makes it perfectly suitable for event based federated systems with real time data processing This tightly coupled wrapper archite

Engineering Federated Information Systems S. Conrad, 1999-05 **Enterprise Information Systems** José Cordeiro, Slimane Hammoudi, Leszek Maciaszek, Olivier Camp, Joaquim Filipe, 2015-07-30 This book contains extended and revised papers from the 16th International Conference on Enterprise Information Systems ICEIS 2014 held in Lisbon Portugal in April 2014 The 24 papers presented in this volume were carefully reviewed and selected from a total of 313 submissions The book also contains two full paper invited talks The selected papers reflect state of the art research that is oriented toward real world applications and highlight the benefits of information systems and technology for industry and services They are organized in topical sections on databases and information systems integration artificial intelligence and decision support systems information systems analysis and specification software agents and Internet computing human computer interaction and enterprise architecture *Engineering Federated Information Systems* Stefan Conrad, Ralf-Detlef Kutsche, Wilhelm Hasselbring, 2001 The aim of EFIS 2001 the fourth workshop in the sequence of the international workshops on engineering federated information systems is to intensify the exchange of ideas and experiences between academia and industrial practice EFIS 2001 was embedded as one part into the major event Information Federation

Week Berlin 2001 including scientific and industrial workshops demos and discussions for the academic audience as well as for a broader of young and senior practitioners in industry and public services

Network-Based Information Systems

Tomoya Enokido, Leonhard Barolli, Makoto Takizawa, 2007-08-24 This book constitutes the refereed proceedings of the First International Conference on Network Based Information Systems NBIS 2007 held in Regensburg Germany September 2007 in conjunction with Dexa 2007 It covers recommender systems business process design aspects mobile commerce security and e payment Web services computing semantic Web e negotiation and agent mediated systems and issues in Web advertising

Databases and Information Systems

Janis Barzdins, Albertas Caplinskas, 2013-04-17 Modern information systems differ in essence from their predecessors They support operations at multiple locations and different time zones are distributed and network based and use multidimensional data analysis data warehousing knowledge discovery knowledge management mobile computing and other modern information processing methods This book considers fundamental issues of modern information systems It discusses query processing data quality data mining knowledge management mobile computing software engineering for information systems construction and other topics The book presents research results that are not available elsewhere With more than 40 contributors it is a solid source of information about the state of the art in the field of databases and information systems It is intended for researchers advanced students and practitioners who are concerned with the development of advanced information systems

On the Move to Meaningful Internet Systems

2005: CoopIS, DOA, and ODBASE Zahir Tari, 2005-10-11 This two volume set LNCS 3760 3761 constitutes the refereed proceedings of the three confederated conferences CoopIS 2005 DOA 2005 and ODBASE 2005 held as OTM 2005 in Agia Napa Cyprus in October November 2005 The 89 revised full and 7 short papers presented together with 3 keynote speeches were carefully reviewed and selected from a total of 360 submissions Corresponding with the three OTM 2005 main conferences CoopIS DOA and ODBASE the papers are organized in topical sections on workflow workflow and business processes mining and filtering petri nets and processs management information access and integrity heterogeneity semantics querying and content delivery Web services agents security integrity and consistency chain and collaboration management Web services and service oriented architectures multicast and fault tolerance communication services techniques for application hosting mobility security and data persistence component middleware java environments peer to peer computing architectures aspect oriented middleware information integration and modeling query processing ontology construction metadata information retrieval and classification system verification and evaluation and active rules and Web services

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the Move to Meaningful Internet Systems ...: CoopIS, DOA, and ODBASE, 2004

Database and Expert Systems

Applications Roland R. Wagner, 1996-08-28 Content Description Includes bibliographical references and index

Intelligent Information Agents Matthias Klusch, 2012-12-06 Agent technology has recently become one of the most vibrant and fastest growing areas in information technology Within this booming area intelligent information agents are

attracting particular attention from the research and development community as well as from industry and user communities interested in everyday private and professional applications This monographic text is the first systematic state of the art survey on intelligent information agents Eighteen coherently written chapters by leading authorities provide complementary coverage of the relevant issues organized in four parts cooperative information systems and agents rational information agents and electronic commerce adaptive information agents mobile agents and security In addition the volume editor has provided a detailed introductory survey chapter motivational introductions to the four parts and a comprehensive bibliography listing more than 700 entries

Informationsgesellschaft Gérald Berthoud, Albert Kündig, 2005

Mobile Web and Intelligent Information Systems Irfan Awan, Muhammad Younas, Aneta Poniszewska-Marańda, 2022-08-15 This book constitutes the refereed proceedings of the 18th International Conference on Mobile Web and Intelligent Information Systems MobiWIS 2022 held in Rome Italy in August 2022 The 18 full papers and 1 short paper presented in this book were carefully reviewed and selected from 51 submissions The papers of MobiWIS 2022 deal focus on topics such as security and privacy web and mobile applications networking and communication intelligent information systems and IoT and ubiquitous computing

Ontologies-Based Databases and Information Systems Martine Collard, 2007-09-13 This book constitutes the refereed post proceedings of the First and Second VLDB Workshop Ontologies based techniques for DataBases and Information Systems held in Trondheim Norway September 2005 and Seoul Korea September 2006 The topics include ontology based interoperability and schema matching management of ontological bases and links between ontologies and knowledge

Proceedings of the Third Basque International Workshop on Information Technology, 1997

Informationsmanagement Helmut Krcmar, 2015-04-07 Informationsmanagement hat die Aufgabe den im Hinblick auf das Unternehmensziel bestm glichen Einsatz der Ressource Information zu gew hrleisten Dieses Buch vermittelt die zentrale Einsicht dass Informations und Kommunikationstechniken nicht nur Rationalisierungsm glichkeiten er ffnen sondern vor allem Gestaltungsm glichkeiten f r Organisation und neue Gesch ftsmodelle bieten Somit kann der Leser die unternehmerische und gesellschaftliche Bedeutung von Information sowie die Potenziale informationsverarbeitender Systeme einsch tzen Hierzu erh lt er einen fundierten Einblick in die Systeme die Informationen verarbeiten speichern und bertragen aber auch in die Techniken auf denen sie beruhen Dar ber hinaus werden dem Leser auch die F hrungsaufgaben des Informationsmanagements verst ndlich gemacht Neben den theoretischen Grundlagen vermittelt dieses Buch konkretes Methodenwissen und richtet sich somit an Studierende wie Praktiker Unterst tzung leistet eine an die Struktur des Buches angelehnte bungsfallstudie

Proceedings of the ... Basque International Workshop on Information Technology, 1997

Advanced Information Systems Engineering Panos Constantopoulos, John Mylopoulos, 1996-05-03 This book presents the refereed proceedings of the 8th International Conference on Advanced Information Systems Engineering CAiSE 96 held in Herakleion Crete Greece in May 1996 The 30 revised full papers included in the book were selected from a total of

some 100 submissions The book is organised in sections on CASE environments temporal and active database technologies experience reports interoperability in information systems formal methods in system development novel architectures workflow management and distributed information systems information modelling object oriented database design and semantic links and abstraction

Engineering Federated Information Systems Anne James, Stefan Conrad, 2003 This work covers issues in the development of federated information systems As examples of information systems in application areas such as business finance environmental science and medicine show there is a need to make information available through some form of Federated Information System

Analyzing and Securing Social Networks Bhavani Thuraisingham, Satyen Abrol, Raymond Heatherly, Murat Kantarcioglu, Vaibhav Khadilkar, Latifur Khan, 2016-04-06 Analyzing and Securing Social Networks focuses on the two major technologies that have been developed for online social networks OSNs i data mining technologies for analyzing these networks and extracting useful information such as location demographics and sentiments of the participants of the network and ii security and privacy technolo

Deductive Databases and Their Applications Robert Colomb, 2003-09-02 Deductive Databases and their Applications is an introductory text aimed at undergraduate students with some knowledge of database and information systems The text comes complete with exercises and solutions to encourage students to tackle problems practically as well as theoretically The author presents the origins of deductive databases in Prologue before proceeding to analyse the main deductive database paradigm the data log model The final chapters are dedicated to closely related topics such as prepositional expert systems integrity constraint specification and evaluation and update propagation Particular attention is paid to CASE tool repositories

Decoding **Enhanced Active Databases For Federated Information Systems**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Enhanced Active Databases For Federated Information Systems**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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