

A rule-based language for Web data management*

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ABSTRACT

There is a new trend to use Datalog-style rule-based languages to specify modern distributed applications, notably on the Web. We introduce here such a language for a distributed data model where peers exchange messages (i.e. logical facts) as well as rules. The model is formally defined and its interest for distributed data management is illustrated through a variety of examples. A contribution of our work is a study of the impact on expressiveness of “delegations” (the installation of rules by a peer in some other peer) and explicit timestamps. We also validate the semantics of our model by showing that under certain natural conditions, our semantics converges to the same semantics as the centralized system with the same rules. Indeed, we show this is even true when updates are considered.

Categories and Subject Descriptors

H.2.4 [Information Systems]: Database Management—*Systems, Distributed databases*

General Terms

Languages, Theory

Keywords

Datalog, Delegation, Distribution, Web

1. INTRODUCTION

The management of modern distributed information, notably on the Web, is a challenging problem. Because of its complexity, there has recently been a trend towards using high-level Datalog-style rules to specify such applications. We introduce here a model for distributed computation where peers exchange messages (i.e. logical facts) as well as rules. The model provides a novel setting with a strong emphasis on dynamism and interactions (in a Web 2.0 style). Because the model is powerful, it provides a clean basis for the specification of complex distributed applications. Because it is simple, it provides a formal framework for studying many facets of the problem such as distribution, concurrency, and expressivity in the context of distributed autonomous peers.

In recent years, there has been renewed interest in studying languages in the Datalog family for a wide range of applications ranging from program analysis, to security and privacy protocols, to natural language processing, or multiplayer games. For references see [17] and the forthcoming proceedings of the Datalog 2.0 workshop [15]. We are concerned here with using rule-based languages for the management of data in distributed settings, as in web applications [2, 7, 13, 4], networking [21, 20, 16] or distributed systems [22]. The arguments in favor of using Datalog-style specifications for complex distributed applications are the familiar ones, cf. [17].

A main contribution of the paper is a new model for distributed data management that combines in a formal setting deductive rules as in Datalog with negation, cf. [12] (to specify intensional data) and active rules as in Datalog⁺ [8] (for updates and communications). There have already been a number of proposals for combining active and deductive features in a rule-based language; see [19, 17] and our discussion of related work. However, there is yet to be a consensus on the most appropriate such language. We therefore believe that there is a need to continue investigating novel language features adapted to modern data management and to formally study the properties of the resulting new models.

The language we introduce, called *Webdatalog*, is tailored to facilitate the specification of data exchange between autonomous peers, which is essential to the applications we have in mind. Towards that goal, the novel feature we in-

*This work has been partially funded by the European Research Council under the European Community's Seventh Framework Programme (FP7/2007-2013) / ERC grant *Webdam*, agreement 226513. <http://webdam.inria.fr/>

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PODS'11, June 13–15, 2011, Athens, Greece.
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A Rule Based Language For Web Data Management

Yijin Wang



A Rule Based Language For Web Data Management:

Handbook of Research on Emerging Rule-Based Languages and Technologies: Open Solutions and Approaches Giurca, Adrian, Gasevic, Dragan, Taveter, Kuldar, 2009-05-31 This book provides a comprehensive collection of state of the art advancements in rule languages Provided by publisher *Database and Expert Systems Applications*

Abdelkader Hameurlain, Stephen W. Liddle, Klaus-Dieter Schewe, Xiaofang Zhou, 2011-08-19 This book constitutes the refereed proceedings of the 22 International Conference on Database and Expert Systems Applications DEXA 2011 held in Toulouse France August 29 September 2 2011 The 52 revised full papers and 40 short papers presented were carefully reviewed and selected from 207 submissions The papers are organized in topical sections on query processing database semantics skyline queries security and privacy spatial and temporal data semantic web search storage and search web search data integration transactions and optimization and web applications **Advances in Databases and Information Systems** Morzy Tadeusz, Patrick Valduriez, Ladjel Bellatreche, 2015-08-14 This book constitutes the thoroughly refereed proceedings of the 19th East European Conference on Advances in Databases and Information Systems ADBIS 2015 held in Poitiers France in September 2015 The 31 full papers and 18 short papers presented were carefully selected and reviewed from 135 submissions The papers are organized in topical sections such as database theory and access methods user requirements and database evolution multidimensional modeling and OLAP ETL transformation extraction and archiving modeling and ontologies time series processing performance and tuning advanced query processing approximation and skyline confidentiality and trust *New Trends in Databases and Information Systems* Barbara Catania, Tania Cerquitelli, Silvia Chiusano, Giovanna Guerrini, Mirko Kämpf, Alfons Kemper, Boris Novikov, Themis Palpanas, Jaroslav Pokorný, Athena Vakali, 2013-08-17 This book reports on state of art research and applications in the field of databases and information systems It includes both fourteen selected short contributions presented at the East European Conference on Advances in Databases and Information Systems ADBIS 2013 September 1 4 Genova Italy and twenty six papers from ADBIS 2013 satellite events The short contributions from the main conference are collected in the first part of the book which covers a wide range of topics like data management similarity searches spatio temporal and social network data data mining data warehousing and data management on novel architectures such as graphics processing units parallel database management systems cloud and MapReduce environments In contrast the contributions from the satellite events are organized in five different parts according to their respective ADBIS satellite event BiDaTA 2013 Special Session on Big Data New Trends and Applications GID 2013 The Second International Workshop on GPUs in Databases OAIS 2013 The Second International Workshop on Ontologies Meet Advanced Information Systems SoBI 2013 The First International Workshop on Social Business Intelligence Integrating Social Content in Decision Making and last but not least the Doctoral Consortium a forum for Ph D students The book which addresses academics and professionals alike provides the readers with a

comprehensive and timely overview of new trends in database and information systems research and promotes new ideas and collaborations among the different research communities of the eastern European countries and the rest of the world

Rules and Reasoning Sotiris Moschoyiannis,Rafael Peñaloza,Jan Vanthienen,Ahmet Soylu,Dumitru Roman,2021-12-02
This book constitutes the proceedings of the International Joint Conference on Rules and Reasoning RuleML RR 2021 held in Leuven Belgium during September 2021 This is the 5th conference of a new series joining the efforts of two existing conference series namely RuleML International Web Rule Symposium and RR Web Reasoning and Rule Systems The 17 full research papers presented together with 2 short technical communications papers and 2 abstracts of invited papers were carefully reviewed and selected from 39 submissions *Handbook of Data Management, 2nd Edition* Bhavani Thuraisingham,1997-12-16 Proceedings of the 1998 ACM SIGMOD International Conference on Management of Data Laura Haas,Ashutosh Tiwary,1998 **Proceedings of the Twenty-third ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems** Association for Computing Machinery. Special Interest Group on Management of Data,2004 Proceedings of the ... IFCIS International Conference on Cooperative Information Systems ,1999 Proceedings of the ... International Workshop on Web Information and Data Management ,2002 **Secure Data Management** ,2005 **On the Move to Meaningful Internet Systems ...: CoopIS, DOA, and ODBASE** ,2003 *Data Management and Query Processing for Semistructured Data* Jason George McHugh,2000 *Journal of Database Management* ,2001 *Masters Theses in the Pure and Applied Sciences* Wade H. Shafer,1997 Participating Universities Masters Theses Listed by Study Discipline Aerospace Engineering Agricultural Economics Sciences and Engineering Architectural Engineering and Urban Planning Astronomy Ceramic Engineering Chemical Engineering Chemistry and Biochemistry Civil Engineering Communications Engineering and Computer Science Cryogenic Engineering Electrical Engineering Engineering Mechanics Engineering Physics Engineering Science Fuels Combustion and Air Pollution General and Environmental Engineering Geochemistry and Soil Science Geological Sciences and Geophysical Engineering Geology and Earth Science Geophysics Industrial Engineering and Operations Research Irrigation Engineering Marine and Ocean Engineering Materials Science and Engineering Mechanical Engineering and Bioengineering Metallurgy Meteorology and Atmospheric Science Mineralogy and Petrology Mining and Metallurgical Engineering Missile and Space Systems Engineering Nuclear Engineering Nuclear Physics Oceanography and Marine Science Petroleum and Natural Gas Engineering Photogrammetric and Geodetic Engineering Physics and Biophysics Plastics Engineering Wood Technology Forestry and Forest Science Sanitary Engineering Water Pollution and Resources Textile Technology Transportation Engineering Theses without Specification of School or Department **GMD Report** ,1998 **Database and Expert Systems Applications** ,2002 **7th International Conference on Database Systems for Advanced Applications (DAS-FAA 2001)** Dik Lun Lee,2001 Annotation Proceedings of an April 2001 conference examining recent progress in XML

databases data mining and clustering document and text databases deductive and knowledge bases OLAP indexing techniques mobile computing and databases query languages and processing workflow management visualization and multimedia databases query processing and optimization and heterogeneous and networked databases Specific subjects discussed include distance courseware discrimination based on representative sentence assaying a logical foundation for deductive object oriented databases multi cube computation and facilitating workflow evolution in an advanced object environment Other subjects include a unified retrieval method for multimedia documents and improving backward recovery in workflow systems Lacks a subject index c Book News Inc Windows Developer's Journal ,1997 **International Journal of Risk Assessment and Management** ,2000

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