A3-D3

Personalized Portal for REWERSE

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Abstract

This reports documents the achievement of working group A3 - "Personalized Information Systems" to design and develop a Personalized Portal for REWERSE. We have collected *scenarios* for a Personalized Portal for REWERSE - the **REWERSE-PP**, from which we derived a *concept* for the REWERSE-PP, and for appropriate *user modeling*. To realize the REWERSE-PP, our first task was to create and populate an Ontology for the REWERSE project. Based on this ontology, we realized a first prototype for demonstrating the functionality of the REWERSE-PP: The **Personal Publication Reader**. The REWERSE-PP serves as a use-case for the REWERSE project. During the first development period, we derived requirements for reasoning and rule-languages for the Semantic Web on which we report in a Lessons Learnt section. The REWERSE-PP is already employed as a use case for ECA rules in working group I5 (see deliverable I5-D2/D3).

Keyword List

semantic web, reasoning, personalization, adaptation, portal, information systems, web data extraction, content syndication

Personalized Portal for REWERSE

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Contents

1 Outline of Report

This report documents the achievement of working group A3 - "Personalized Information Systems" to design and develop a Personalized Portal for REWERSE. We describe *scenarios* which we have developed during month 1-12 of the REWERSE project (see section 2). Based on the scenarios, we came up with a *specification* for the REWERSE Personalized Portal (REWERSE-PP) (see section 3). For *modeling users* of an information portal, we decided - according to the specification of the REWERSE-PP, to investigate an event-based model (see section 3.3). To realize the REWERSE-PP, we have developed an ontology for describing the REWERSE project, its goals, members, structure, etc. (see section 4.1 and appendix C). This ontology has been used to develop a first functionality of the REWERSE-PP: To browse publications related to the REWERSE, a personal publication reader (www.personal-reader.de) has been developed (see section 4.2 and appendix A, B). Further functionality that we are currently investigating for the REWERSE-PP is using the WebXcerpt InfoManager (T. Geisler, H. Schütz) application to link from REWERSE-sites to related information in the World Wide Web, and to create a semantic portal based on our REWERSE Ontology (see section 4.3).

The *integration of tools from REWERSE partners* has already been successfully done in the Personal Publication Reader application: The Lixto Suite from partner Vienna (R. Baumgartner, G. Gottlob), and the Personal Reader Framework from partner Hannover (N. Henze et. al.) have provided the necessary infrastructure (Personal Reader Framework) and functionality (Lixto's web data extraction) to realize this idea **within 8 months**.

At the end of this report, we report in a separate section on *Lessons Learnt* (see section 5) our experiences during the development of the first REWERSE-PP functionality w.r.t. reasoning on the Web.

Finally, section 6 outlines our current and future work for realizing the REWERSE-PP.

2 Scenarios for the REWERSE Personalized Portal: REWERSE-PP

We have identified several scenarios where the support of a *personalized* portal will be helpful. These scenarios deal with specific functionality for the REWERSE portal and for REWERSE research achievements like publications, but also for project-related events, like working group meetings, deliverables, etc.

MyREWERSE Portal	REWERSE publications	MetaPortal for "Reasoning on the Web"
Description: A personal page where I can see • my involvement in working groups • what are my next deadlines? • people in my working group (plus info on them) • people of other working groups collaborating with us	**Description:** A publication browser for • displaying publications, contextual, related information, and shows how it relates to REWERSE? • combination with citeseer to have keywords / abstracts of the publications	**Description:** An information Portal from which • I can explore web-sites related to "reasoning on the Web" • Meta-Portal for other Portals on this topic
Goals • Create the data out of the semantic descriptions in the Portal: e.g. send the deliverables to the external reviewers one month before the deadline of submitting the deliverable to the EU office • Use general specifications: "last day of January" instead of "January 31th".	**Goals** • use information found in the Web on publications, on REWERSE, etc. • use personalization rules for content syndication	**Goals** • explore how we can link annotated Web resources. *Bridge from one Semantic Portal to the other* • explore how we can come from Web resources enriched with metadata to poorly annotated resources. *Bridge from a Semantic Portal to the outside Web*
Reasoning: For realizing MyREWERSE, we need • a complete machine readable description of the REWERSE project • combine ontologies on time & location with project-related ontologies, etc • reason about distributed and dynamic ontologies and web information	**Reasoning:** For realizing a Publication Browser for REWERSE, we need • a complete machine readable description of the REWERSE project • a solution to extract information from web pages • an infrastructure to run an appropriate user interface	**Reasoning:** For realizing a Metaportal, we need • ontology linking & mapping • using InfoManager to relate Web resources, reason about these implicit relations

2.1 Collection of further ideas

Support Working Groups

- WP leader makes a new deadline, all involved persons (people from the working group, as well as external reviewer) should see it when they login next.

- See all meetings from the working groups ahead, to decide which might be interesting (personalized to your goal)

Mailing Lists

- mailing lists: are there mailing lists, my subscriptions to mailing lists, email notification, A REWERSE email address with forwarding...

Support Working Group Meetings

- personal traveling preferences

- flight schedules, railway schedules

- tourist information matching to the preferences of the user. Use the tourist information testbed!

- where to get money for the trip? Can this be reimbursed by the EU?

- Using and integrating other testbeds

- collaboration with I4: reasoning about temporal constraints, calendar functions (A1), etc.

3 Concept of the REWERSE-PP

To realize the ideas & scenarios for the REWERSE-PP, we need an open **modular** architecture which allows us to realize the scenarios or parts of the scenarios in a very flexible way. In particular, we require solutions for:

- independent, parallel developments

- explore & experiment with new techniques for reasoning on the Web

- integrate developed functionality in a Plug & Play like manner

For a starting point, we took the ideas of the Personal Reader Framework[1] [9, 8] developed by partner Hannover. The Personal Reader Framework is an environment for designing, implementing and maintaining personal Web-content Readers [9, 8]. These personal Web-content Readers allow a user to browse information (the *Reader* part), and to access personal recommendations and contextual information on the currently regarded Web resource (the *Personal* part).

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[1]www.personal-reader.de

3.1 The Personal Reader Framework - Brief sketch of architecture

Flexible information systems like the REWERSE-PP require a different architecture: not a monolithic approach, but several, independent components, each one serving a specific purpose. The recent Web Service-technology focuses on such-like requirements: A Web Service encapsulates a specific functionality, and communicates with other services or software components via interface components (e.g. [21, 16]). In the Personal Reader concept, each (personalized) information provision task is considered as the result of a particular service (which itself might be composed of several services, too). The aim of this approach is to construct a Plug & Play - like environment, in which the user can select and combine the kinds of information delivery services he or she prefers. The next section outlines briefly the architecture of the Personal Reader framework.

The architecture of the Personal Reader is a rigorous approach for applying Semantic Web technologies. A modular framework of Web Services – for constructing *the user interface*, for *mediating* between user requests and currently available personalization services, for *user modeling*, and for offering *personalization functionality* – forms the basis of a Personal Reader.

The goal of the Personal Reader architecture is to provide the user with the possibility to select services, which provide different or extended functionality, e.g. different visualization or personalization services, and combine them into a Personal Reader instance. The framework features a distributed open architecture designed to be easily extensible. It utilizes standards such as XML[22], RDF[18], etc., and technologies like Java Server Pages (JSP)[12] and XML-based-RPC[23]. The communication between all components / services is syntactically based on RDF descriptions. The architecture is based on different Web Services cooperating with each other to form a specific Personal Reader instance.

3.2 Content Management for the REWERSE-PP

For organizing and managing content, we investigated the following possibilities:

- Extend the Wiki idea to the Semantic Web

- Create a Semantic Portal

Wiki for Semantic Web	Semantic Portal
Description: • Getting semantic descriptions on the fly based on the Wiki idea • "Self-organizing" content management	**Description:** • using a Semantic-Web compatible description of the domain of the Portal • create functionality for the Portal based on these semantic descriptions as required
Goal: • Answer the question: How can we come to semantic descriptions here? • E.g. extract rss feeds from published entries • and/or using forms to generate metadata	**Goal:** • Manage and organize machine-readable, query-able semantics for an information portal • Incrementally instantiate personalization functionality for such a semantic portal • retrieve information by reasoning techniques based on the semantic descriptions of data
Current State: • Wiki for A3 internal space established and used for organizing work in A3; first experiments with feeds • Investigation about developments for Semantic Web Wikis	**Current State:** • Investigation about developments for Semantic Portals • First Experiments with Semantic Portals

3.3 User Modeling for the REWERSE-PP

Based on the above described scenarios and ideas for Portal-functionality and content management, it is clear that we also need a flexible solution for reacting on user events, and for user modeling. Normally, the task of user modeling is designed and implemented for a specific domain and/or application - but a situation like this will not be provided in the REWERSE-PP that we envision. At the current state, we decided to start with an event-model for user modeling, and to have a centralized approach for a *user modeling service.* The event-model needs to be elaborated in detail, however, the main idea for the event-model is to

- provide a **catalogue** of user event-descriptions (**User-Event Ontology**, we assume that we need expressibility of OWL for describing this Ontology)

- each component/module of the REWERSE-PP, that monitors user events, must **report** on these events according to the User-Event Ontology, possibly enriched with module-specific information (which has to be referenced in according semantic descriptions)

- **event detector** (listeners, detectors, queries) (collaboration with I5) deal with the events, react, notify relevant modules, triggers, etc.

- **push and pull strategies** for handling events

3.3.1 Maxims for Personalization in the REWERSE-PP

In the following, we state the maxims for personalization which we have found during the discussion on the REWERSE-PP:

- show that adaptation takes place (make the outcome of the adaptation explicit, let the user be aware that adaptation provides an **added value**, let the user feel that s/he is the one who controls and adjusts the personalization)

- user can choose roles / perspectives (this role might or might not be related to stereotypes in user modeling)

- user can select/deselect what s/he is interested in

4 Realizing the REWERSE-PP

4.1 The REWERSE Ontology

We have created an ontology, the **REWERSE-Ontology**, for describing the REWERSE-project. This "REWERSE-Ontology" has been built by aid of the Protege tool [17]. It extends the Semantic Web Research Community Ontology (SWRC) [20]. Like in the SWRC, the REWERSE-Ontology has three subclasses *person*, *organization*, and *project*. Due to the extension of the SWRC, some more subclasses appear in it, e.g. university, department and institute as subclasses of organization.

The is-a hierarchy of the classes of the REWERSE-Ontology can be seen in figure 1.
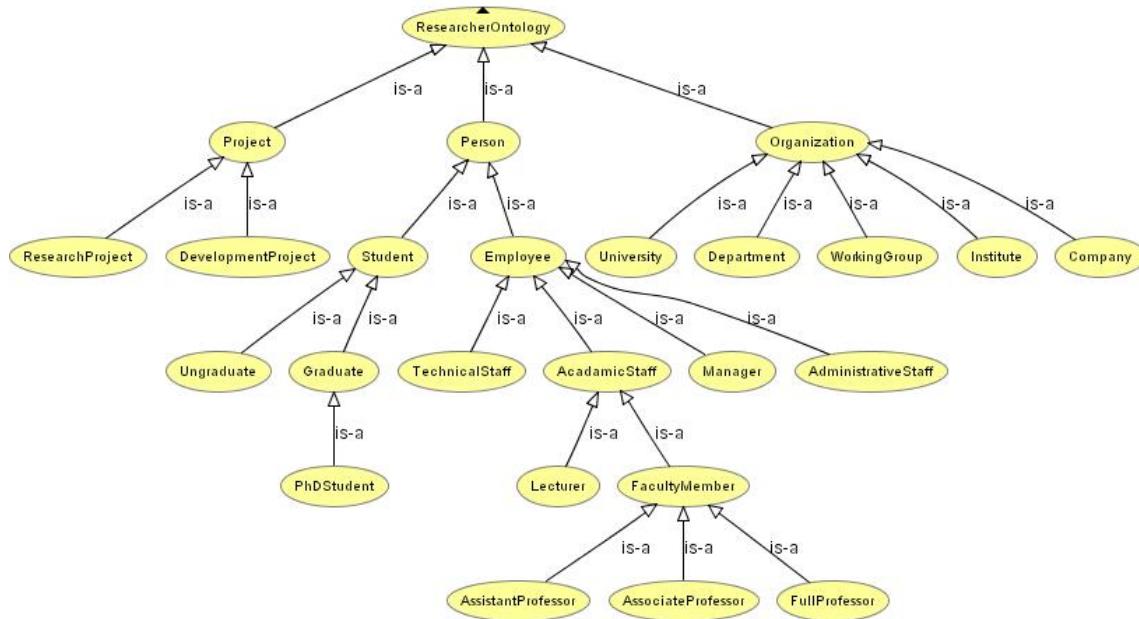
Figure 1: Hierarchy of Classes in the REWERSE-Ontology

4.1.1 Classes and Properties of the REWERSE-Ontology

A synopsis of classes and properties used in the REWERSE-Ontology is depicted in figure 2.
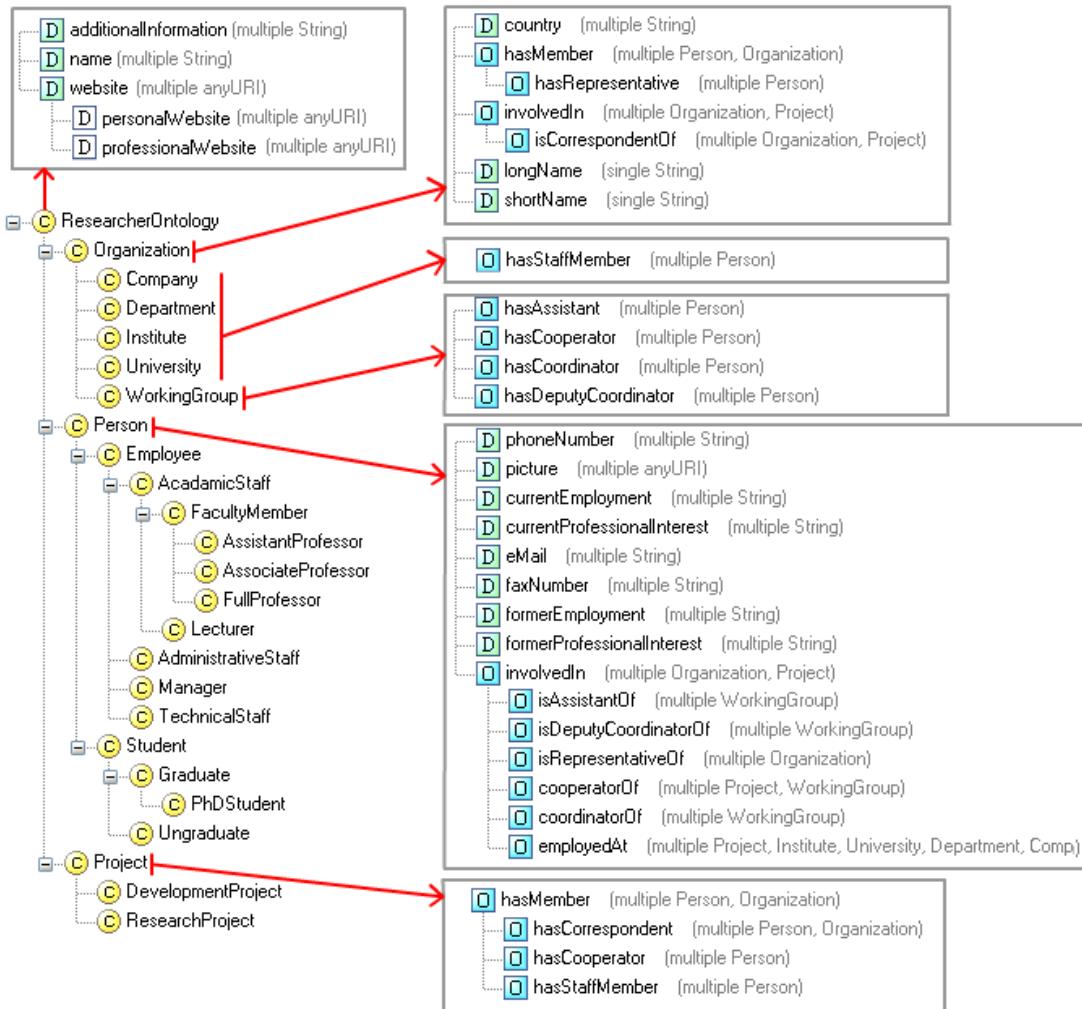
Figure 2: Classes and Properties of the REWERSE-Ontology

The complete ontology is listed in Appendix C.

4.1.2 Instances of the REWERSE-Ontology

Figure 3 shows for an example how some classes and properties are instantiated.
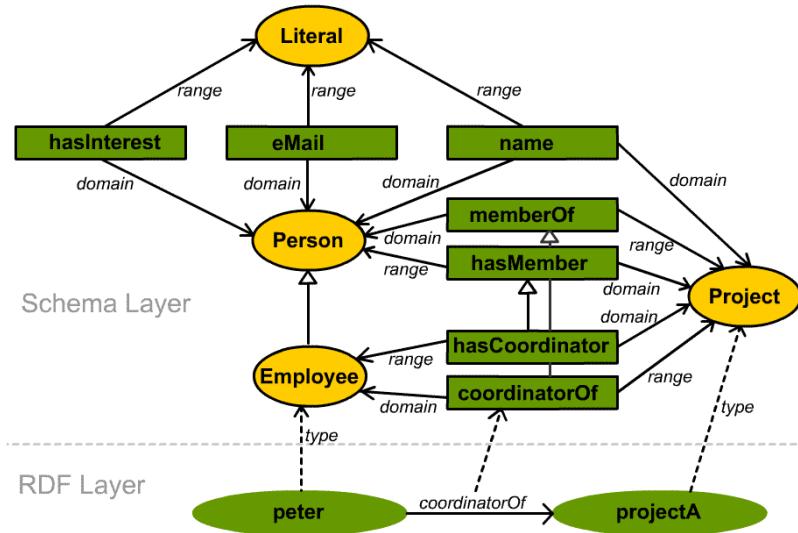
Figure 3: Classes and Properties of the REWERSE-Ontology

4.1.3 Stats of the REWERSE-Ontology

Figure 4: Stats of the REWERSE-Ontology

4.2 First REWERSE-PP Realization: The Personalized Publication Reader

The Personalized Publication Reader has been developed in cooperation of the partners Vienna and Hannover. The Prototype of this application can be used online via `http://www.personal-reader.de`. A screenshot of the application can be seen in figure 5.
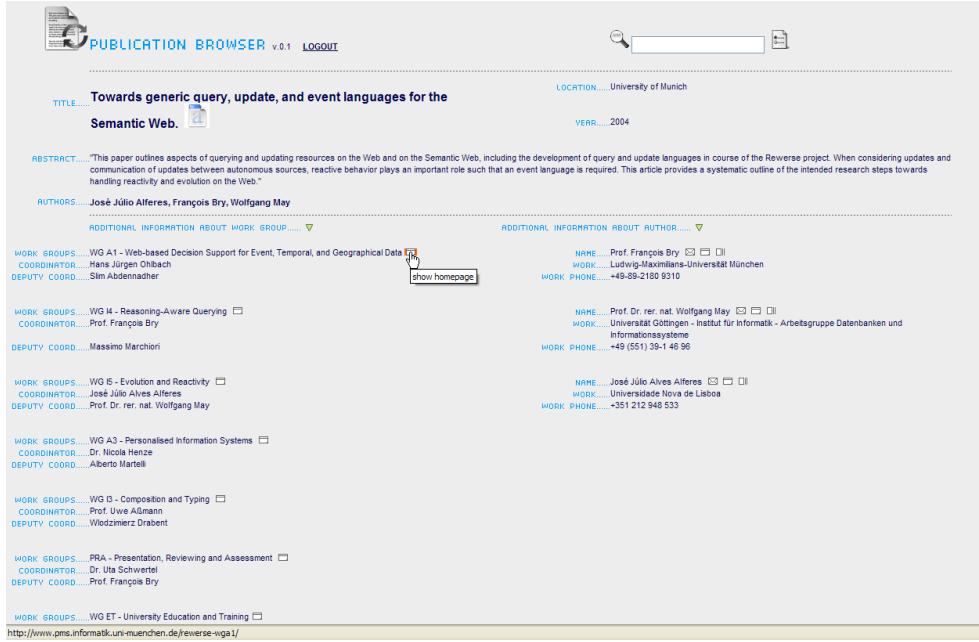
Figure 5: Screenshot of the Personal Publication Reader. Prototype available at http://www.personal-reader.de

We have reported about the design, architecture, and realization of the Personal Publication Reader in a paper which has been accepted for publication at the *International Ubiquitous Web Systems and Intelligence Workshop* (UWSI 2005), Colocated with ICCSA 2005, Suntec Singapore, 9-12 May 2005,

"Semantic Web enabled Information Systems: Personalized Views on Web Data",
Robert Baumgartner, Christian Enzi, Nicola Henze, Marc Herrlich, Marcus Herzog, Matthias Kriesell, and Kai Tomaschewski,

and another paper which has been accepted for publication at the European Semantic Web Conference ESWC 2005, Heraklion, Greece, May 29 - June 1 2005:

"The Personal Publication Reader: Illustrating Web Data Extraction, Personalization and Reasoning for the Semantic Web",
Robert Baumgartner, Nicola Henze, and Marcus Herzog.

Both, UWSI'05 and ESWC'05 paper, are attached to this deliverable in the Appendix.

Further, we gave a presentation at Knowledge Management Europe Conference, Amsterdam, Nov. 8-10, 2004. `http://www.personal-reader.de/talks/km_europe04/amsterdam_presentation.html`

4.3   Further REWERSE-PP Applications

Bootstrapping the Semantic Web with webXcerpt's InfoManager Summary of ideas:

- getting out of REWERSE context: stepping into the Web / bootstrapping the outside world
- **Goal:** getting semantic information on the fly
- we start from a portal where we have highly annotated data, and we use the webXcerpt InfoManager to get relations to the outside:
  - start with some people which use webXcerpt's InfoManager to provide annotations and collections related to a working group or some topic
  - others can use the annotations which browsing, and can provide more annotations
- **Current State:** InfoManager Server is currently set up in Hannover.

Semantic Portal or Wiki? We investigated in particular the following approaches:

'Platypus Wiki' Platypus: `http://platypuswiki.sourceforge.net`
Platypus Wiki is a prototype of a Semantic Web Wiki. It supports collaborative creation of ontologies, and effective and enriched navigation possibilities through ontologies. Realization: In Platypus Wiki, a Wiki-Page is an RDF-Resource, enriched with metadata (RDF-Statements) and some HTML-Content.

'Semantic Blogging' Semantic Blogging: `http://www.semanticblogging.org`
Semantic Blogging is a research project at HP Labs. Blogs are enriched with some metadata, the user is supported to create the metadata. Several views on the blogs are supported: E.g. 'Record Card'-View shows the metadata; metadata of the blog and of referenced resources can be seen. Further features are Semantic Navigation (Tree Browsing and Facet Browsing), Semantic Query and JustBlogIt!-Principle (mark the text, click JustBlogIt!; an editor window with title (= HTML-title of the actual page), author (= login name), URL (= URL of the actual page), and description (= marked text) are already filled.

SWAD-E: Semantic Portals Semantic Portal: `Link:http://www.w3.org/2001/sw/Europe/showcase/sem-portal.html`
'Semantic Portal' is a demonstrator of SWAD-Europe. It provides software for creating portals, based on Semantic Web technologies. An example of an implemented Portal is 'SWED' (Semantic Web Environmental Dictionary). Features: A Content-Aggregator is used to collect data about organizations or projects; data is stored in RDF according to SWED-Ontologies on the server of the according organization. A user of 'SWED' can browse the organizations based on categories. To see an organization, several views are supported: HTML-View, Raw (table with properties of the organization/project and their values), and Link-Visualization (graphic showing how an organization is related to other organization). Portal-Software, Editor-Software and documentation are downloadable.

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- **Current state:** we decided to investigate the SWAD-E portal approach, and to use our developed REWERSE-Ontology to create a semantic portal.

5 Lessons Learnt

From the realization of the Personal Publication Reader, we have observed a problem for **Real-World Reasoning for the Semantic Web**. Even such a relatively small application like our Personal Publication Reader, where ontological information on publications and a project is combined, pointed out to a serious problem for real-world reasoning: **performance!**. The amount of RDF and OWL-Data which needs to be processed for a personalization rule is so large that it is more comparable to a database application than to a pure reasoning application. It is not possible in the Personal Publication Reader to shrink the amount of data in advance; the user request must be carried out w.r.t. the complete data. The costs for collecting the distributed RDF-data for the PPR was low, and our implemented caching strategies did not influence the result significantly.

The original attempt to use TRIPLE for reasoning failed w.r.t performance (processing times where in the scale of minutes), and we re-implemented the personalization rules using Jena's RDQL (resulting in processing times less than one second). Doing this, we had to implement some solutions to overcome the lack of expressibility of RDQL w.r.t TRIPLE. Ideally, the Personal Publication Reader application needs a rule-based language with an expressiveness similar to TRIPLE, and effective querying support like RDQL. We expect reports on similar problems whenever more real Semantic Web-enabled applications have been developed: the amount of RDF / OWL data that needs to be consulted at real-time might often exeed a critical mass.

6 Conclusion and Future Work

This report describes the current state of developments for creating a Personalized Portal for REWERSE - the **REWERSE-PP**. We describe scenarios for such a personalized information portal, and our concept for the realization of the REWERSE-PP.

Based on our concept, it was necessary to create an ontology for describing the REWERSE-project. We developed the **REWERSE-Ontology** by extending the SWRC ontology which has been used to model & describe researchers and their affiliations. The REWERSE-Ontology has been populated with currently available information on the project like people, organizations, working groups, contributions of people / organizations to working groups, etc.

A first prototype demonstrating functionality for the REWERSE-PP has been launched: the **Personal Publication Reader**. This prototype has been presented during KM Europe and demonstrates how web data extraction and personalized content syndication can be used to realize a browser for publications developed in the REWERSE context: each publication is enriched with information about the authors, and the relation of this publication to the REWERSE project, its contribution to working groups is shown. Furthermore, pointers to similar, relevant publications are provided. The realization of the Personal Publication Reader in this very short time was possible by integrating tools developed by REWERSE partners: the Lixto Suite (Vienna) and the Personal Reader Framework (Hannover).

Future work will focus on extending the current prototype of the Personal Publication Reader. In addition, we already started to work on two further features of the REWERSE-PP:

using a collaborative browsing approach to bootstrap the Semantic Web, and to build a semantic Portal for REWERSE. The REWERSE-PP scenario is also investigated in co-operation with working group I5, see deliverable I5-D2/D3.

7   Acknowledgment

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A Semantic Web enabled Information Systems: Personalized Views on Web Data

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In this paper a methodology and a framework for personalized views on data available on the World Wide Web are proposed. We describe its main two ingredients, Web data extraction and ontology-based personalized content presentation. We exemplify the usage of these methodologies with a sample application for personalized publication browsing[2].

keywords: personalized information management, semantic web, web intelligence, web data extraction

A.1   Introduction

The vision of a next generation Web, a *Semantic Web*, in which machines are enabled to understand the meaning of information in order to better inter-operate and better support humans in carrying out their tasks, is very appealing and fosters the imagination of smarter applications that can retrieve, process and present information in enhanced ways. In this vision, a particular attention should be devoted to *personalization*: By bringing the user's needs into the center of interaction processes, personalized Web systems overcome the one-size-fits-all paradigm and provide individually optimized access to Web data and information.

We claim that a huge class of Semantic Web-enabled information systems should be able to extract relevant information from the Web, and to process and combine pieces of distributed information in such a way that the content selection and presentation fits to the current and individual needs of the user. From this viewpoint, such systems need to focus especially on the *information extraction process*, and the *personalized content syndication process*. The actual authoring process of information, and the information management processes, are important aspects, too, if we consider portal-like applications. However, there is a sustainable need of systems which can detect and process already existing Web information.

In this paper, we describe the Web data extraction task (Section A.2), and an approach for personalized content presentation (Section A.3). Section A.4 finally exemplifies our vision of Semantic Web-enabled information systems with an example scenario: browsing publication data with personalized support. We realized this scenario in the *Personal Publication Reader (PPR)* application. The paper ends with conclusions and outlook on future work.

A.2   Web Data Extraction and Integration

Today the Semantic Web is still a vision. In contrary, the unstructured Web nowadays contains millions of documents which are not queryable as a database and heavily mix layout

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and structure. Moreover, they are not annotated at all. There is a huge gap between Web information and the qualified, structured data as usually required in corporate information systems. According to the vision of the Semantic Web, all information available on the Web will be suitably structured, annotated, and qualified in the future. However, until this goal is reached, and also, towards a faster achievement of this goal, it is absolutely necessary to (semi-)automatically extract relevant data from HTML document and automatically translate this data into a structured format, e.g., XML. Once transformed, data can be used by applications, stored into databases or populate ontologies.

Whereas information retrieval targets to analyze and categorize documents, information extraction collects and structures entities inside of documents. For Web information extraction languages and tools for accessing, extracting, transforming, and syndicating the Data on the Web are required. The Web should be useful not merely for human consumption but additionally for machine communication. A program that automatically extracts data and transforms it into another format or markups the content with semantic information is usually referred to as *wrapper*. Wrappers bridge the gap between unstructured information on the Web and structured databases. A number of classification taxonomies for wrapper development languages and environments have been introduced in various survey papers [6, 13, 14]. High-level programming languages, machine learning approaches and interactive approaches are distinguished.

A.2.1   Extracting Web Data with Lixto

Lixto [2] is a methodology and tool for visual and interactive wrapper generation developed at the University of Technology in Vienna. It allows wrapper designers to create so-called "XML companions" to HTML pages in a supervised way. As internal language, Lixto relies on *Elog*. Elog is a datalog-like language especially designed for wrapper generation. The Elog language operates on Web objects, that are HTML elements, lists of HTML elements, and strings. Elog rules can be specified fully visually without knowledge of the Elog language. Web objects can be identified based on internal, contextual, and range conditions and are extracted as so-called "pattern instances".

In [7], the expressive power of a kernel fragment of *Elog* has been studied, and it has been shown that this fragment captures monadic second order logic, hence is very expressive while at the same time easy to use due to visual specification.

Besides expressiveness of a wrapping language, robustness is one of the most important criteria. Information on frequently changing Web pages needs to be correctly discovered, even if e.g. a banner is introduced. Visual Wrapper offers robust mechanisms of data extraction based on the two paradigms of tree and string extraction. Moreover, it is possible to navigate to further documents during the wrapping process. Predefined concepts such such as "is a weekday" and "is a city" can be used. The latter is established by connecting to an ontological database. Validation alerts can be imposed that give warnings in case user-defined criteria are no longer satisfied on a page.

Visually, the process of wrapping is comprised of two steps: First, the identification phase, where relevant fragments of Web pages are extracted. Such extraction rules are semi-automatically and visually specified by a wrapper designer in an iterative approach. This step is succeeded by the structuring phase, where the extracted data is mapped to some destination format, e.g. enriching it with XML tags. With respect to populating ontologies with Web data instances, another phase is required: Each information unit needs to be put into relation with other pieces of information.

A.2.2 Visual Data processing with Lixto

Heterogeneous environments such as integration and mediation systems require a conceptual information flow model. The usual setting for the creation of services based on Web wrappers is that information is obtained from multiple wrapped sources and has to be integrated; often source sites have to be monitored for changes, and changed information has to be automatically extracted and processed. Thus, push-based information system architectures in which wrappers are connected to pipelines of postprocessors and integration engines which process streams of data are a natural scenario, which is supported by the Lixto Transformation Server [3]. The overall task of information processing is composed into stages that can be used as building blocks for assembling an information processing pipeline. The stages are to acquire the required content from the source locations, to integrate and transform content from a number of input channels and tasks such as finding differences, and format and deliver results in various formats and channels and connectivity to other systems.
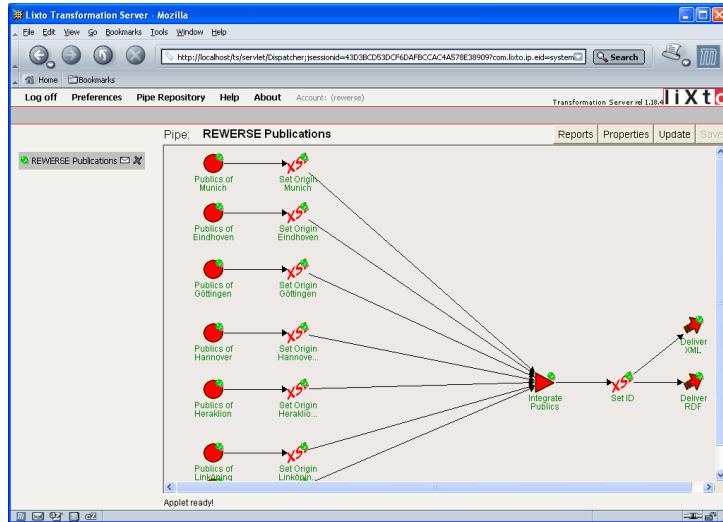
Figure 6: Lixto Transformation Server: REWERSE Publication Data Flow

The actual data flow within the Transformation Server is realized by handing over XML documents. Each stage within the Transformation Server accepts XML documents (except for the wrapper component, which accepts HTML), performs its specific task (most components support visual generation of mappings), and produces an XML document as result. This result is put to the successor components. Boundary components have the ability to activate themselves according to a user-specified strategy and trigger the information processing on behalf of the user. From an architectural point of view, the Lixto Transformation Server may be conceived as a container-like environment of visually configured information agents. The pipe flow can model very complex unidirectional information flows (see Figure 6). Information services may be controlled and customized from outside of the server environment by various types of communication media such as Web Services.

A.3 Personal Readers - Personalization Services for the Semantic Web

Flexible information systems which need to be capable of adjusting to different application domains require a different architecture: not a monolithic approach, but several, independent components, each one serving a specific purpose. The recent Web Service-technology focuses on such-like requirements: A Web Service encapsulates a specific functionality, and communicates with other services or software components via interface components (e.g. [21, 16]).

We consider each (personalized) information provision task as the result of a particular service (which itself might be composed of several services, too). The aim of this approach is to construct a Plug & Play - like environment, in which the user can select and combine the kinds of information delivery services he or she prefers. With the Personal Reader Framework[3], we have developed an environment for designing, implementing and maintaining personal Web-content Readers [9, 8]. These personal Web-content Readers allow a user to browse information (the *Reader* part), and to access personal recommendations and contextual information on the currently regarded Web resource (the *Personal* part). The next section outlines briefly the architecture of the Personal Reader framework.

A.3.1 Architecture of the Personal Reader framework

The architecture of the Personal Reader is a rigorous approach for applying Semantic Web technologies. A modular framework of Web Services – for constructing *the user interface*, for *mediating* between user requests and currently available personalization services, for *user modeling*, and for offering *personalization functionality* – forms the basis of a Personal Reader.

The goal of the Personal Reader architecture is to provide the user with the possibility to select services, which provide different or extended functionality, e.g. different visualization or personalization services, and combine them into a Personal Reader instance. The framework features a distributed open architecture designed to be easily extensible. It utilizes standards such as XML[22], RDF[18], etc., and technologies like Java Server Pages (JSP)[12] and XML-based-RPC[23]. The communications between all components / services is syntactically based on RDF descriptions. The architecture is based on different Web Services cooperating with each other to form a specific Personal Reader instance.

A.4 The Personal Publication Reader

Let us consider the following scenario for describing the idea of the Personal Publication Reader:

> Bob is currently employed as a researcher in a university. Of course, he is interested in making his publications available to his colleagues, for this he publishes all his publications at his institute's Web page. Bob is also enrolled in a research project. From time to time, he is requested to notify the project coordination office about his new publications. Furthermore, the project coordination office maintains a member page where information about the members, their involvement in the project, research experience, etc. is maintained.

From the scenario, we may conclude that most likely the partners of a research project have their own web-sites where they publish their research papers. In addition, information about

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[3]www.personal-reader.de

the role of researchers in the project like "Bob is participating mainly in working group X, and working group X is strongly cooperating with working groups Y and Z" might be available. If we succeed in making this information available to machines to reason about, we can derive new information like: "This research paper of Bob is related to working group X, other papers of working group X on the same research aspects are A, B, and C, etc."

To realize a Personal Publication Reader (PPR), we extract the publication information from the various web-sites of the partners in the REWERSE project: All Web-pages containing information about publications of the REWERSE network are periodically crawled and new information is automatically detected, extracted and indexed in the repository of semantic descriptions of the REWERSE network (see Section A.4.1). Information on the project REWERSE, on people involved in the project, their research interests, and on the project organization, is modeled in an ontology for REWERSE (see Section A.4.2). Extracted information and ontological knowledge are used to derive a syndicated view on each publication: who has authored it, which research groups are related to this kind of research, which other publications are published by the research group, which other publications of the author are available, which other publications are on the similar research, etc. Information about the current user of the system (such as specific interests of the user, or his membership to the project) is used to individualize the view on the data (see Section A.4.3). The realization of the PPR has been carried out in the Personal Reader Framework (see Section A.4.4); the prototype of the PPR is accessible via the Web at the URL www.personal-reader.de.

A.4.1   Gathering Data for the PPR

Each institute and organization offers access to its publication on the Web. However, each presentation is usually different, some use e.g. automatic conversions of *bibtex* or other files, some are manually maintained. Such a presentation is well suited for human consumption, but hardly usable for automatic processing. Consider e.g. the scenario that we are interested in all publications of *REWERSE* project members in the year 2003 which contain the word "personalization" in their title or abstract. To be able to formulate such queries and to generate personalized views on heterogeneously presented publications it is necessary to first have access to the publication data in a more structured form.

In Section A.2.1 we discussed data extraction from the Web and the Lixto methodology. Here, we apply Lixto to regularly extract publication data from all *REWERSE* members. As Figure 6 illustrates, the disks are Lixto wrappers that regularly (e.g. once a week) navigate to the page of each member (such as Munich, Hannover, Eindhoven) and apply a wrapper that extracts at least author names, publication titles, publication year and link to the publication (if available).

In the "XSL" components publication data is harmonized to fit into a common structure and an attribute "origin" is added containing the institution's name. The triangle in Figure 6 represents a data integration unit; here data from the various institutions is put together and duplicate entries removed. IDs are assigned to each publication in the next step. Finally, the XML data structure is mapped to a defined RDF structure (this happens in the lower arc symbol in Figure 6) and passed on to the Personal Publication Reader as described below. A second deliverer component delivers the XML publication data additionally.

This Lixto application can be easily enhanced by connecting further Web sources. For instance, abstracts from www.researchindex.com can be queried for each publication lacking this information and joined to each entry, too. Moreover, using text categorization tools one

can rate and classify the contents of the abstracts.

A.4.2 Ontological knowledge for the PPR: The REWERSE-Ontology

In addition to the extracted information on research papers that we obtain as described in the previous section, we collect the data about the members of the research project from the member's corner of the REWERSE project. We have constructed an ontology for describing researchers and their involvement in REWERSE. This "REWERSE-Ontology" has been built with by aid of the Protege tool [17]. It extends the Semantic Web Research Community Ontology (SWRC) [20]. Like in the SWRC, the REWERSE-Ontology has three subclasses *person*, *organization*, and *project*. Due to the extension of the SWRC, some more subclasses appear in it, e.g. university, department and institute as subclasses of organization.

A.4.3 Content Syndication and Personalized Views

All the collected information is then used in a personalization service which provides the end user with an interface for browsing publications of the REWERSE project, and having instantly access to further information on authors, the working groups of REWERSE, recommended related publications, etc.

The personalization service of the PPR uses personalization rules for deriving new facts, and for determining recommendations for the user. As an example, the following rule (using the TRIPLE[19] syntax) determines all authors of a publication:

```
FORALL A, P all_authors(A, P) <-
  EXISTS X, R (
  P['http://.../rewerse#':author -> X]@'http:...#':publications
  AND X[R -> 'http://www.../author':A]@'http:...#':publications).
```

Further rules combine information on these authors from the researcher ontology with the author information. E.g. the following rule determines the employer of a project member, which might be a company, or a university, or, more generally, some instance of a subclass of an organization:

```
FORALL A,I works_at(A, I) <-
   EXISTS A_id,X (name(A_id,A)
     AND ont:A_id[ont:involvedIn -> ont:I]@'http:...#':researcher
     AND ont:X[rdfs:subClassOf ->
             ont:Organization]@rdfschema('http:...#':researcher)
     AND ont:I[rdf:type -> ont:X]@'http:...#':researcher).
```

For a user with specific interests, for example "interest in personalized information systems", information on respective research groups in the project, on persons working in this field, on their publications, etc., is syndicated. As an example, the following rule derives all persons working in specific working groups in the project. Personalization is realized by matching the results of this rule with the individual request, e.g `ont:WG[ont:name -> 'WG A3 - Personalized Information Systems').`

```
FORALL WG,M working_group_members(WG,M) <-
      ont:WG[rdf:type -> ont:WorkingGroup]@'http:..#':researcher
      AND ont:WG[ont:hasMember-> ont:M]@'http://...#':researcher.
```

A screenshot of the PPR application is depicted in fig. 7. The PPR can be accessed via the URL `www.personal-reader.de`
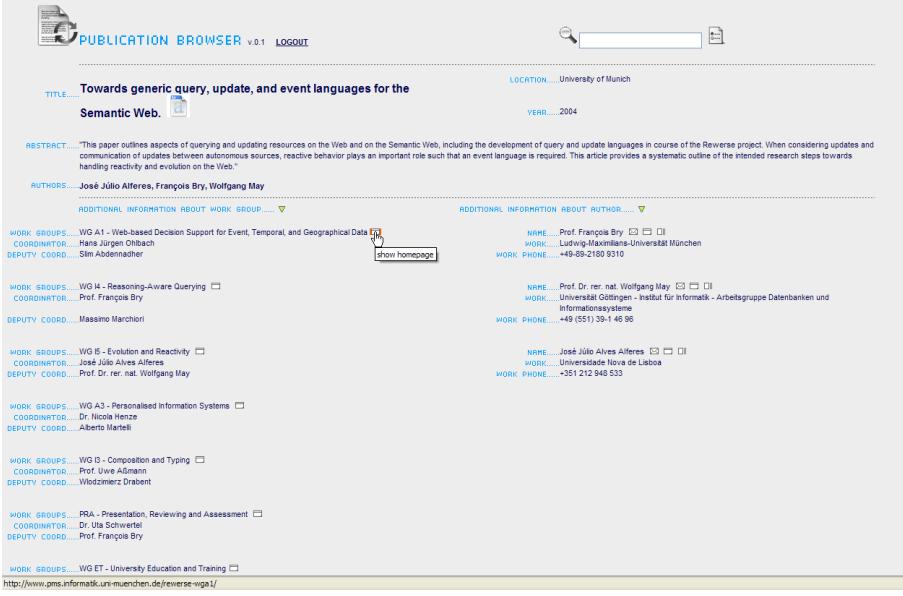
Figure 7: data flow of PR.

A.4.4 Instantiating the Personal Publication Reader

The Personal Publication Reader was implemented using the generic Personal Reader framework. The Personal Publication Reader instance of the Personal Reader consists of the following three components:

- a connector service
- the Personal Publication Reader visualization service
- one or more personalization services

Figure 8 shows the data-flow in the Personal Publication Reader and the services it is composed of:

Step 1: The user logs on to the system and requests information about a publication through the visualization service

Step 2: The visualization service forwards the request to the connector service adding information about where the RDF resource descriptions are located

Steps 3 and 4: The connector service retrieves the resource descriptions needed from a web server

Step 5: The connector service converts - if necessary - the data to a reasoner specific format and forwards it to a personalization service (e.g. based on TRIPLE[19] or Jena's RDF query language RDQL [11])

Step 6: The personalization service provides the results to the connector service

Step 7: The connector service converts - if necessary - the results to a specified format and forwards them to the visualization service

Step 8: The visualization service displays the results to the user in an appropriate manner
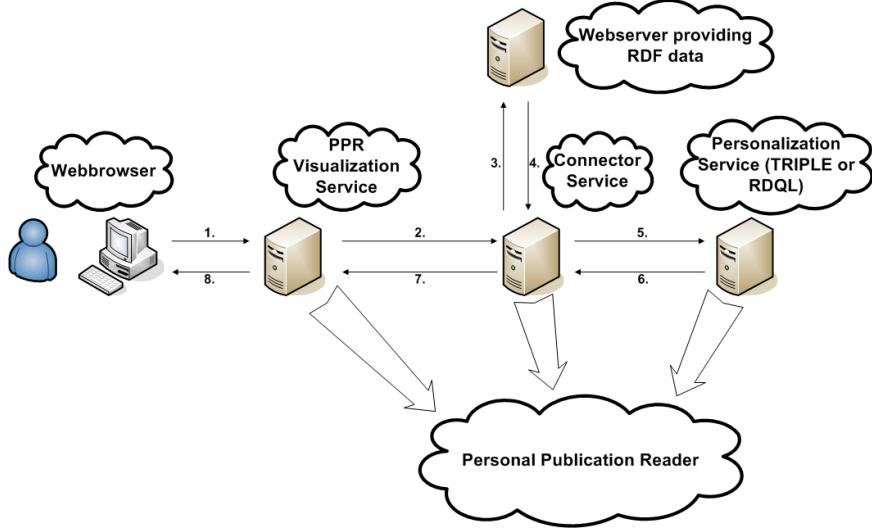
Figure 8: Data-flow in the Personal Publication Reader

A.5 Conclusion and Future Work

This paper shows an approach for Web data extraction and personalized content syndication for Semantic Web-enabled information systems. For the *Web data extraction process* we use Lixto, an easily accessible technology based on a solid theoretical framework and a visual approach that allows application designers to defined continuously running information agents fetching data from the Web. *Personalized content syndication* has been realized within the Personal Reader Framework, which provides an infrastructure for designing, implementing and maintaining Web content readers. We have demonstrated the realization of our approach in an exemplary application, the Personal Publication Reader. Future research topics in Web data extraction comprise extraction from poorly-structured formats such as PDF, ontology-based wrapping, and techniques for automatic wrapper adaptation. Research on personalized content syndication will explore the application of more complex personalization strategies, and also collaborative approaches for personalization.

A.6 Acknowledgement

B The Personal Publication Reader: Illustrating Web Data Extraction, Personalization and Reasoning for the Semantic Web

Authors: Robert Baumgartner, Nicola Henze, and Marcus Herzog

This paper shows how Semantic Web technologies enable the design and implementation of advanced, personalized information systems. We demonstrate by means of an example application how personalized content syndication can be realized in the Semantic Web. Our approach consists of two main parts: The web data extraction part, providing the information system with real-time, dynamic data, and the personalization part, which deduces - with the aid of ontological domain knowledge - personalized views on the data. The prototype of the system has been realized using the *Personal Reader Framework* for designing, implementing, and maintaining Web content Readers[5].

keywords: semantic web, personalization, reasoning on the semantic web, web data extraction

B.1 Motivation

The realization of the Semantic Web idea to be "an extension of the current web in which information is given a well-defined meaning, better enabling computers and people to work in cooperation" [5] has in only a few years pushed researchers and computer specialists to explore machine-readable semantics, appropriate markup and description languages, and sharable knowledge representation techniques. While these before mentioned techniques exist (at the writing time of this paper) as W3C recommendations, is the design of the so-called upper layers of the Semantic Web tower[4], e.g. the rule and reasoning layer, or the layers of proof and trust, still to explore.

In this paper, we investigate how advanced information systems for the Semantic Web can be realized. We claim that a huge class of Semantic Web-enabled information systems should be able to extract relevant information from the web, and to process and combine pieces of distributed information in such a way that the content selection and presentation fits to the current and individual needs of the user. From this viewpoint, such systems need to focus especially on the *information extraction process*, and the *personalized content syndication process*. The actual authoring process of information, and the information management processes, are important aspects, too, if we consider portal-like applications. However, there is a sustainable need of systems which can detect and process already existing Web information. To demonstrate our ideas for personalized content syndication, we consider the following scenario:

> Peter is working as a researcher at a university. He publishes his research findings in journals and conferences, and also puts his publication online onto his institute's homepage. Peter is also enrolled in a research project. From time to time, he is requested to notify the project coordination office about his new publications.
> The project coordination office maintains a member page where information about the members, their involvement in the project, research experience, research publications, etc. is maintained.

When we analyze the scenario, we see that

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1. data about the publications is duplicated - it is stored at the university where Peter is working, but also on the Web pages of the project,

2. information about the project (people, research goals, achievements, etc.) is available online, but not related to the publications (unless somebody relates this information by hand).

The questions at hand from the scenario are:

- Can we organize this process in a way that Peter needs to publish his publications only once, e.g. at his institute's Web page? Thus that we avoid duplication of information, together with all negative side-effects like maintenance and update problems?

- Can we make use of the available contextual information on the project?

- Can we extract (relevant) information from Web pages?

- Can we combine the data in an intelligent way in order to provide a user a personally optimized access to the information? From the scenario, we may conclude that information about the role of researchers in the project like "Bob is participating mainly in working group X, and working group X is about topics Y and Z. strongly cooperating with working groups Y and Z" might be available. If we succeed in making this information available to machines to reason about, we can derive new information like: "This research paper of Bob is related to working group X, other papers of working group X on similar research questions are A, B, and C, etc."

This paper answers the above stated questions and demonstrates their realization within the Personal Reader framework[8, 9]. We have implemented a Personal Reader instance, the so-called *Personal Publication Reader (PPR)* which makes use of web data extraction techniques, reasoning about ontological knowledge and metadata description of informations, and provides a personal semantic view on publication data. The Personal Publication Reader has been designed and developed in the context of the Network of Excellence "REWERSE - Reasoning on the Web" and syndicates and personalizes information about the project structure, people and objectives of the REWERSE project, etc., and information about research papers in the context of the project.

The paper is organized as follows: In Section B.2 we briefly outline our idea of establishing personalization services for the Semantic Web, and describe the architecture of the Personal Reader framework. The following Section B.3 discusses approaches for Web Data extraction, and introduces the Lixto Suite. Section B.4 then describes the realization of the Personal Publication Reader (PPR) in detail: We describe what kind of data is available via the Web (Section B.4.1), and how we extract (Section B.4.2), and transform it (Section B.4.3) for the PPR. The domain ontology of the PPR, describing the REWERSE project, its members and research objectives, is topic of Section B.4.4. Section B.4.5 shows how various personalization rules derive new facts as well as personalized views on the data on top of extracted data, ontological knowledge, and user profile information. Concluding remarks and an outlook on ongoing and future work end this paper.

B.2 Personal Web Content Readers

Flexible information systems which need to be capable of adjusting to different application domains require a different architecture: not a monolithic approach, but several, independent components, each one serving a specific purpose. The recent Web service-technology focuses on such-like requirements: A Web service encapsulates a specific functionality, and communicates with other services or software components via interface components (e.g. [21, 16]).

We consider each (personalized) information provision task as the result of a particular service (which itself might be composed of several services, too). The aim of this approach is to construct a Plug & Play - like environment, in which the user can select and combine the kinds of information delivery services he or she prefers. With the Personal Reader Framework, we have developed an environment for designing, implementing and maintaining personal Web content Readers [8, 9]. These personal Web content Readers allow a user to browse information (the *Reader* part), and to access
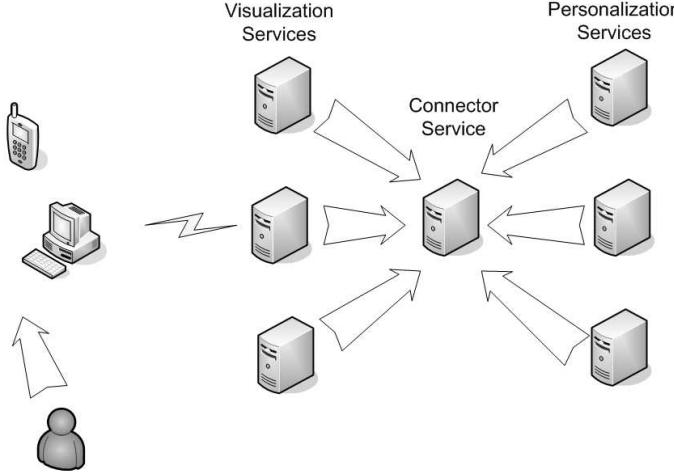
Figure 9: Architecture of the Personal Reader framework, showing the different components of the Personal Reader: visualization, personalization, and the Personal Reader backbone (consisting of the connector service which organizes the communication and matching between the various visualization and personalization services).

personal recommendations and contextual information on the currently regarded Web resource (the *Personal* part). The next section outlines briefly the architecture of the Personal Reader framework.

B.2.1 The Personal Reader Framework: Designing and Maintaining Personal Web Content Readers

The architecture of the Personal Reader framework is a rigorous approach for applying Semantic Web technologies. A modular framework of Web services – for constructing *the user interface*, for *mediating* between user requests and currently available personalization services, for *user modeling*, and for offering *personalization functionality* – forms the basis of each Personal Reader Instance (see Figure 9).

The aim of the Personal Reader framework is to realize Web content Readers which give the user the possibility to select services, which provide different or extended functionality, e.g. different visualization or personalization services, and combine them into a *personal* Web content Reader instance. The framework features a distributed open architecture designed to be easily extensible. It utilizes standards such as XML[22], RDF[18], etc., and technologies like Java Server Pages (JSP)[12] and XML-based-RPC[23]. The communications between all components / services is syntactically based on RDF descriptions. This provides the required flexibility for combining various personalization and visualization services in one application, and thus supports the realization of our Plug & Play idea for personalization functionality on the Semantic Web.

B.2.2 Related Work on Personalized Information Systems

To the best of our knowledge, we are not aware of personalized information systems on the Semantic Web which realize the *personalization-as-service* idea in a similar way. Personalized information systems require a sophisticated model of the actual application domain, thus, traditionally, these systems do not provide (and do not aim for) extensible architectures and systems. However, in [10], we have conducted a study on the re-usability aspects of personalization functionality, with special fo-

cus on the area of adaptive hypermedia systems. This study led to the conclusion that in fact even highly system-dependent personalization functionality like those from adaptive hypermedia research, can be encapsulated and prepared for re-use, an important precondition for the successful realization of personalization services is given.

B.3   Web Data Extraction and Integration

B.3.1   Objectives and Approaches

The *unstructured Web* of today contains millions of documents which are not query-able as a database and heavily mix layout and structure. Moreover, they are not annotated at all. There is a huge gap between Web information and the qualified, structured data as usually required in corporate information systems or as envisioned by the Semantic Web. However, until the vision of a Semantic Web is realized, and also, towards a faster achievement of this goal, it is absolutely necessary to (semi-)automatically extract relevant data from HTML document and automatically translate this data into a structured format, e.g., XML. Once transformed, data can be used by applications, stored into databases or populate ontologies.

A program that automatically extracts data and transforms it into another format or markups the content with semantic information is usually referred to as *wrapper*. Wrappers bridge the gap between unstructured information on the Web and structured databases. A number of classification taxonomies for wrapper development languages and environments have been introduced in various survey papers [6, 13, 14]. In general, it is distinguished between high-level programming languages, machine learning approaches and supervised approaches. Due to the lack of space we refer to the mentioned survey papers for an overview of available methods and tools.

B.3.2   Lixto Visual Wrapper

Lixto Visual Wrapper [2] is a methodology and tool for visual and interactive wrapper generation developed at the University of Technology in Vienna together with the Lixto Software GmbH. It allows wrapper designers to create so-called "XML companions" to HTML pages in a supervised way. As internal language, Lixto relies on *Elog*. Elog is a datalog-like language especially designed for wrapper generation. The Elog language operates on Web objects, that are HTML elements, lists of HTML elements, and strings. Elog rules can be specified fully visually without knowledge of the Elog language. Web objects can be identified based on internal, contextual, and range conditions and are extracted as so-called "pattern instances".

In [7], the expressive power of a kernel fragment of *Elog* has been studied, and it has been shown that this fragment captures monadic second order logic, hence is very expressive while at the same time easy to use due to visual specification.

Besides expressiveness of a wrapping language, robustness is one of the most important criteria. Information on frequently changing Web pages needs to be correctly discovered, even if e.g. a banner is introduced. Visual Wrapper offers robust mechanisms of data extraction based on the two paradigms of tree and string extraction. Moreover, it is possible to navigate to further documents during the wrapping process. Validation alerts can be imposed that give warnings in case user-defined criteria are no longer satisfied on a page.

The usage of Elog is completely invisible to the average wrapper designer and all operations are carried out by visual means. This is comprised of two steps: First, the identification phase, where relevant fragments of Web pages are extracted (see Figure 10). Such extraction rules are semi-automatically and visually specified by a wrapper designer in an iterative approach. This step is succeeded by the structuring phase, where the extracted data is mapped to some destination format, e.g. enriching it with XML tags to subsequently populate an ontology with instance data.

B.3.3   Lixto Transformation Server

Heterogeneous environments such as integration and mediation systems require a conceptual information flow model. The usual setting for the creation of services based on Web wrappers is that information is obtained from multiple wrapped sources and has to be integrated; often source sites have to be monitored for changes, and changed information has to be automatically extracted and processed. Thus, push-based information systems architectures in which wrappers are connected to pipelines of post-processors and integration engines which process streams of data are a natural scenario, which is supported by the Lixto Transformation Server [3]. The overall task of information processing is composed into stages that can be used as building blocks for assembling an information processing pipeline. The stages are to

- acquire the required content from the source locations; this component resembles the Lixto Visual Wrapper plus Deep Web Navigation and Form iteration;
- integrate and transform content from a number of input channels and tasks such as finding differences,
- interact with external processes, and
- format and deliver results in various formats and channels and connectivity to other systems.

The actual data flow within the Transformation Server is realized by handing over XML documents. Each stage within the Transformation Server accepts XML documents (except for the wrapper component, which accepts HTML), performs its specific task (most components support visual generation of mappings), and produces an XML document as result. This result is put to the successor components. Boundary components have the ability to activate themselves according to a user-specified strategy and trigger the information processing on behalf of the user. From an architectural point of view, the Lixto Transformation Server may be conceived as a container-like environment of visually configured information agents. The pipe flow can model very complex unidirectional information flows (see Figure 11). Information services may be controlled and customized from outside of the server environment by various types of communication media such as Web services. The Transformation Server includes a user management that allows application designers to subscribe and parameterize components of other application designers.

B.4   The Personal Publication Reader

To realize the Personal Publication Reader (PPR) within the Personal Reader framework (see Section B.2), we extract the publication information from the various Web sites of the partners in the REWERSE project: All Web pages containing information about publications of the REWERSE network (see Section B.4.1) are periodically crawled and new information is automatically detected, extracted and indexed in the repository of semantic descriptions of the REWERSE network (see Sections B.4.2, B.3.3, B.4.3). Information on the project REWERSE, on people involved in the project, their research interests, and on the project organization, is modeled in an ontology for REWERSE (see Section B.4.4). Extracted information and ontological knowledge are used to derive a syndicated view on each publication: who has authored it, which research groups are related to this kind of research, which publications are published by the research group, which publications are on the similar research, etc. Information about the current user of the system (such as specific interests of the user, or his membership to the project) is used to individualize the view on the data (see Section B.4.5).

B.4.1   Publication Data on the Web

In this scenario we are in particular interested to give a personalized view on publications of the members of the REWERSE network of excellence. Therefore, the ontology of the Personal Publication Reader has to be populated with instance data from publication sources. In most of the cases, the organizations

Participant	Structure and Presentation
Munich	`http://www.pms.informatik.uni-muenchen.de/` `publikationen` all publications on a single page sorted by years (latest on top), auto-generated format, usage of HTML elements inside publications, even for individual authors, links and bibtex available
Hannover	`http://www.kbs.uni-hannover.de/Stamm/Publikationen.` `html` all publications on a single page sorted by years (newest on top, publications numbered by years), publications consistent (some formatted differently), data very complete, usage of HTML elements inside publications, links available
Heraklion	`http://www.ics.forth.gr/publications.jsp` publications on multiple pages structured by years; additional structuring with next links, sites and publications consistent, data very complete, usage of HTML elements inside publications, links and abstracts available
Linköpping	`http://www.ida.liu.se/ext/dpr/access2/` publications on multiple pages structured by years, sites and publications not consistent, usage of HTML elements inside publications, links on selected authors, publications numbered

Table 1: Publication Web pages of selected REWERSE members

offer access to their publications through a Web interface. However, each Web presentation is totally different, some use e.g. automatic conversions of *bibtex* or other files, some are manually maintained, some are based on databases. Such a presentation is well suited for human consumption, but hardly usable for automatic processing. Nevertheless, the Web is the most valuable information resource in this scenario. In order to access and understand these heterogeneous information sources one has to apply web extraction techniques as described in Section B.3.

In Table 1 selected REWERSE members are given and their publication format is described. The table explains how the publications are structured, and how the format of a single publication looks like. Moreover, it describes whether at least some parts of a single publication are rendered via HTML elements (such as italics for the title). For most member sites it holds that even if HTML elements are used usually authors are merely separated by commas.

Furthermore, the table indicates whether additional information to author, title, and year are available and how complete the information is (if e.g. year or conference is missing). The least common denotator for all member pages are the availability of author names, title name and publication year, in some cases additionally abstracts and links are available.

B.4.2 Gathering Web Data for the Personal Publication Reader

In the following, we describe a step-by-step construction of this example from the viewpoint of an application designer who creates this application.

A human being tends to assign semantic meaning to parts of a Web page; a designer does not think of *table row* as of a set with text values, but rather as a *publication entry*. Therefore, the basic building block of a wrapper program is a so-called *pattern*, a container for pieces of information with the same meaning. Patterns are structured in a hierarchical fashion. In the lower half of the Visual Wrapper's

UI (see Figure 10) an active example Web page is displayed for marking example instances: For each type of Web page, an own wrapper has to be created; in the following the wrapper creation for the publications of Munich is illustrated.
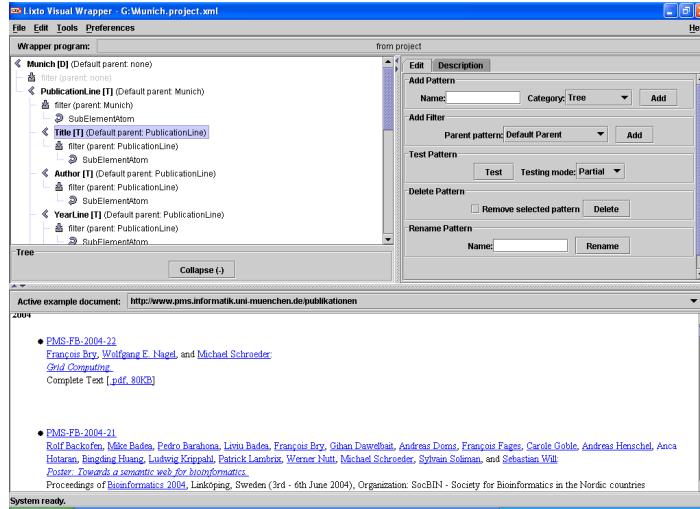
Figure 10: Lixto Visual Wrapper: Wrapping Publication Pages

In this case, the designer identifies one of the list items (each resembling a publication) as a pattern *PublicationLine*. Once a pattern is created, the designer continues with visually defining a filter, a crucial part of the pattern which defines how to extract relevant information from its parent pattern instances. Internally, filters are represented in Elog, but the language is entirely hidden from the wrapper designer.

Defining a filter expects the designer to select an example publication with two mouse clicks on the example Web page. A filter definition continues with optional fine-tuning of properties for the generated generalization of the chosen example. It is possible to visually debug the wrapper program, i.e., to test filters. Typically, operators test filters after adding new components. Based on results, the designer decides whether to extend (i.e., add a filter) or shrink (i.e., add condition to an existing filter) the set of matched instances.

In this example, the system displays the complete list of matched publications for the so-far created filter by highlighting parts of the Web page. In cases where the system generalization does not detect all instances correctly, additional conditions can be imposed.

Next a child pattern *Title* of the just defined pattern is created and then a filter with the condition that the extracted element is in italics. The pattern *Author* on the Munich page can be easily characterized, too, by the fact that a special hyperlink is present and that the author names precede the title.

On other pages such as e.g. Linköpping the extraction of authors is more advanced. Some authors are inside hyperlinks, others merely separated by commas. Moreover, on other sources authors are sometimes incorrectly splitted, names abbreviated and different separators used. Therefore, we developed an author concept based on all detected variations.

On the Munich page the year can be extracted from several places (see Figure 10). One possibility is from the internal number. The first line of the list item is extracted, and in a subsequent step the four digit number is taken out. On some other sources the year has to be extracted from the headline,

and in a subsequent step mapped to each entry.

In a similar fashion the remaining patterns are defined and the wrapper is stored. The XML Companion of the publication Web page that can be regularly generated by applying the wrapper is comprised of entries like the one given below:

```
<Publication>
  <Title>Visual Exploration and Retrieval of XML Document
         Collections with the Generic System X2</Title>
  <Author>Holger Meuss</Author>
    [...more authors...]
  <Year>2004</Year>
  <Link>http://www.pms.informatik.uni-muenchen.de/
         publikationen/PMS-FB/PMS-FB-2004-12.pdf</Link>
</Publication>
```

As next step the XML data of the various sources has to be combined, cleaned, syndicated into the ontology, and regularly scheduled. These operations are carried out by configuring a visual information flow in the *Lixto Transformation Server* as described in Section B.4.3.
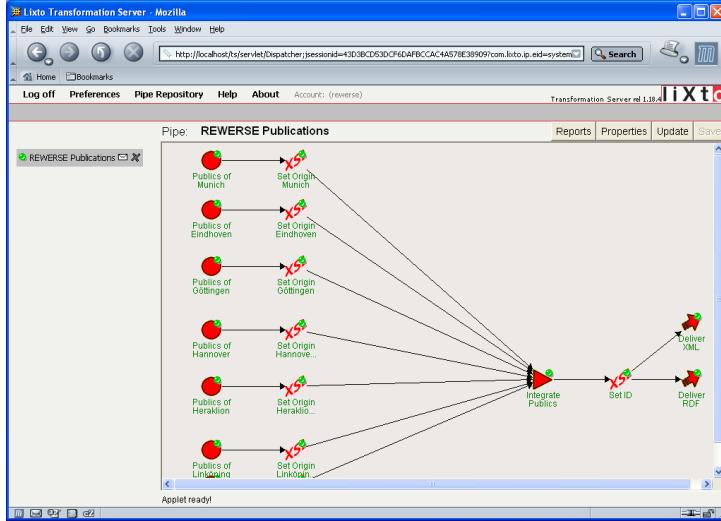
Figure 11: Lixto Transformation Server: REWERSE Publication Data Flow

B.4.3   Visual Data Aggregation for the Personal Publication Reader

In the Personal Publication Reader scenario, the application designer visually composes the information flow from Web sources using the Lixto Transformation Server to an RDF presentation that is handed over to the Personal Publication Reader once a week.

First, the application designer creates Source components that contain Lixto wrappers. In the source components (that are reflected as disks in Figure 11) a schedule is defined how often which Web source is queried and Deep Web navigation sequences containing logins and forms can be stored. Next, the wrapper designer can combine the XML documents by adding integration components.

In the "XSL" components publication data is harmonized to fit into a common structure, an attribute "origin" is added containing the institution's name, and author names are harmonized by being mapped to a list of names known by the system. The triangle in Figure 11 represents a data integration unit; here data from the various institutions is put together and duplicate entries are removed. IDs are assigned to each publication in the subsequent step. Finally, the XML data structure is mapped to a defined RDF structure (this happens in the lower arc symbol in Figure 11) and passed on to the Personal Publication Reader as described below. A second deliverer component delivers the XML publication data additionally. One sample RDF output entry is depicted below:

```
<rdf:Description
  rdf:about="http://www.pms.informatik.uni-muenchen.de/
  publikationen/PMS-FB/PMS-FB-2004-12.pdf">
 <dc:publisher>University of Munich</dc:publisher>
 <dc:title>Visual Exploration and Retrieval of XML Document
  Collections with the Generic System X2</dc:title>
 <dc:creator>
   <rdf:Seq>
       <rdf:li rdf:resource="#Holger Meuss"/>
       <rdf:li rdf:resource="#Klaus U. Schulz"/>
       <rdf:li rdf:resource="#Felix Weigel"/>
       <rdf:li rdf:resource="#Simone Leonardi"/>
       <rdf:li rdf:resource="#Francois Bry"/>
   </rdf:Seq>
 </dc:creator>
 <dc:date>2004</dc:date>
 <dc:identifier>http://www.pms.informatik.uni-muenchen.de/
  publikationen/PMS-FB/PMS-FB-2004-12.pdf</dc:identifier>
</rdf:Description>
```

This application can be easily enhanced by connecting further Web sources. For instance, abstracts from www.researchindex.com can be queried for each publication lacking this information and joined to each entry, too. Moreover, using text categorization tools one can rate and classify the contents of the abstracts. Another possibility is to extract organization and people data from the institution's Web pages to inform the ontology to which class in the taxonomy an author belongs (such as full professor).

B.4.4 Modeling Domain Knowledge: The REWERSE Ontology

In addition to the extracted information on research papers that we obtain as described in the previous section, we collect the data about the members of the research project from the member's corner of the REWERSE project. We have constructed an ontology for describing researchers and their involvement in scientific projects like REWERSE. This "REWERSE-Ontology" has been built using the Protégé tool [17]. It extends the Semantic Web Research Community Ontology (SWRC) [20]. An excerpt of the REWERSE-Ontology, written in OWL[15]:

```
<owl:ObjectProperty rdf:ID="hasStaffMember">
 <rdfs:subPropertyOf>
   <owl:ObjectProperty rdf:about="#hasMember"/>
 </rdfs:subPropertyOf>
 <owl:inverseOf>
   <owl:ObjectProperty rdf:ID="employedAt"/>
 </owl:inverseOf>
 <rdfs:label xml:lang="de">Angestellte</rdfs:label>
```

```
  <rdfs:domain>
    <owl:Class>
      <owl:unionOf rdf:parseType="Collection">
        <owl:Class rdf:about="#University"/>
        <owl:Class rdf:about="#Institute"/>
        <owl:Class rdf:about="#Project"/>
        <owl:Class rdf:about="#Department"/>
        <owl:Class rdf:about="#Company"/>
      </owl:unionOf>
    </owl:Class>
  </rdfs:domain>
  <rdfs:range rdf:resource="#Person"/>
  <rdfs:label xml:lang="en">Staffmember</rdfs:label>
</owl:ObjectProperty>

<owl:ObjectProperty rdf:about="#employedAt">
  <rdfs:label xml:lang="en">employed at</rdfs:label>
  <rdfs:range>
    <owl:Class>
      <owl:unionOf rdf:parseType="Collection">
        <owl:Class rdf:about="#Project"/>
        <owl:Class rdf:about="#Institute"/>
        <owl:Class rdf:about="#University"/>
        <owl:Class rdf:about="#Department"/>
        <owl:Class rdf:about="#Company"/>
      </owl:unionOf>
    </owl:Class>
  </rdfs:range>
  <rdfs:subPropertyOf rdf:resource="#involvedIn"/>
  <rdfs:label xml:lang="de">angestellt bei</rdfs:label>
  <rdfs:domain rdf:resource="#Person"/>
  <owl:inverseOf rdf:resource="#hasStaffMember"/>
</owl:ObjectProperty>
```

To match the domain knowledge in the REWERSE Researcher Ontology to the extracted publication data, we have a resource identification problem. The author names may vary - for example, `F. Bry`, `Franois Bry`, `Prof. F. Bry`, etc. . A "helper" ontology, describing the full name of each author, and a variety of commonly used designators of his or her name, is currently used to solve this matching task.

B.4.5 Content Syndication and Personalized Views

As we have described in the previous sections, we have extracted relevant data from various, non-uniform Web sites, and created an extension of the SWRC ontology to model the needs of scientific projects such as REWERSE. We will now see how personalization rules reason about this collected data in order to syndicated and personalize the view on the data. A discussion on personalization reasoning for the Semantic Web can be found in [1]. As an example, the following rule (using the TRIPLE[19] syntax) determines all authors of a publication:

```
FORALL A, P all_authors(A, P) <-
  EXISTS X, R (
  P['http://.../rewerse#':author -> X]@'http:...#':publications
```

```
AND X[R -> 'http://www.../author':A]@'http:...#':publications).
```

Further rules combine information on these authors from the researcher ontology with the author information. E.g. the following rule determines the employer of a project member, which might be a company, or a university, or, more generally, some instance of a subclass of an organization:

```
FORALL A,I works_at(A, I) <-
   EXISTS A_id,X (name(A_id,A)
     AND ont:A_id[ont:involvedIn -> ont:I]@'http:...#':researcher
     AND ont:X[rdfs:subClassOf ->
              ont:Organization]@rdfschema('http:...#':researcher)
     AND ont:I[rdf:type -> ont:X]@'http:...#':researcher).
```

For a user with specific interests, for example "interest in personalized information systems", information on respective research groups in the project, on persons working in this field, on their publications, etc., is syndicated. As an example, the following rule derives all persons working in specific working groups in the project. Personalization is realized by matching the results of this rule with the individual request, e.g `ont:WG[ont:name -> 'WG A3 - Personalized Information Systems')`.

```
FORALL WG,M working_group_members(WG,M) <-
       ont:WG[rdf:type -> ont:WorkingGroup]@'http:..#':researcher
       AND ont:WG[ont:hasMember-> ont:M]@'http://...#':researcher.
```


Figure 12: Screenshot of the Personal Publication Reader, showing the syndicated view on publications in REWERSE, the context in the project in which this research has been done, together with the appropriate links, and additional information about the authors of the publication like homepage, phone number, etc. The Personal Publication Reader is available via the URL www.personal-reader.de

For the PPR, we instantiated a personalization service in the Personal Reader framework which holds the above mentioned rules, and further personalization rules of the PPR. An appropriate visualization service for creating the user interface has been implemented. The screenshot in Figure 12 depicts the output of the visualization service of the PPR.

B.5   Conclusion

This paper describes an approach for realizing advanced personalized information systems in the Semantic Web. We discuss our approach by means of an example application, a Personal Publication Reader, which provides a personalized, syndicated view on distributed, non-uniform web data. The information provision part for the Personal Publication Reader is solved by using the Lixto approach. *Lixto* is an easily accessible technology based on a solid theoretical framework [2, 3, 7] and a visual approach that allows application designers to define continuously running information agents fetching data from the Web. Many functions that will be tangible only in the future "Semantic Web" can be crucially supported by the usage *Lixto*. Content syndication and personalization is achieved by reasoning about ontological knowledge and extracted Web data. The Personal Publication Reader is realized using the Personal Reader Framework for designing, implementing, and maintaining personalized Web Content Readers. Until know, we have realized such Readers for e-Learning and for publication browsing, ongoing work focuses on implementing additional personalization services, and on on improving the service orchestration functionality in our framework.

C   The REWERSE Ontology

The REWERSE Ontology can be found at `http://www.personal-reader.de/rdf/`

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:xsd="http://www.w3.org/2001/XMLSchema#" xmlns="http://www.example.org/rewerse#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-sch
  <owl:Ontology rdf:about=""/>
  <owl:Class rdf:ID="AdministrativeStaff">
    <rdfs:label xml:lang="en">Administrative Staffmember</rdfs:label>
    <rdfs:label xml:lang="de">Administrativer Angestellter</rdfs:label>
    <rdfs:subClassOf>
      <owl:Class rdf:ID="Employee"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Project">
    <rdfs:subClassOf>
      <owl:Class rdf:ID="ResearcherOntology"/>
    </rdfs:subClassOf>
    <rdfs:label xml:lang="de">Projekt</rdfs:label>
    <rdfs:label xml:lang="en">Project</rdfs:label>
  </owl:Class>
  <owl:Class rdf:ID="TechnicalStaff">
    <rdfs:subClassOf>
      <owl:Class rdf:about="#Employee"/>
    </rdfs:subClassOf>
    <rdfs:label xml:lang="en">Technical Staffmember</rdfs:label>
    <rdfs:label xml:lang="de">Techniker</rdfs:label>
  </owl:Class>
  <owl:Class rdf:ID="WorkingGroup">
    <rdfs:label xml:lang="en">Working Group</rdfs:label>
    <rdfs:subClassOf>
      <owl:Class rdf:ID="Organization"/>
    </rdfs:subClassOf>
    <rdfs:label xml:lang="de">Arbeitsgruppe</rdfs:label>
  </owl:Class>
  <owl:Class rdf:ID="AssociateProfessor">
    <rdfs:subClassOf>
      <owl:Class rdf:ID="FacultyMember"/>
    </rdfs:subClassOf>
    <rdfs:label xml:lang="en">Associate Professor</rdfs:label>
    <rdfs:label xml:lang="de">Professor</rdfs:label>
  </owl:Class>
  <owl:Class rdf:ID="Institute">
    <rdfs:label xml:lang="de">Institut</rdfs:label>
    <rdfs:subClassOf>
      <owl:Class rdf:about="#Organization"/>
    </rdfs:subClassOf>
    <rdfs:label xml:lang="en">Institute</rdfs:label>
  </owl:Class>
  <owl:Class rdf:ID="Department">
    <rdfs:label xml:lang="de">Department</rdfs:label>
    <rdfs:label xml:lang="en">Department</rdfs:label>
    <rdfs:subClassOf>
      <owl:Class rdf:about="#Organization"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="FullProfessor">
    <rdfs:label xml:lang="en">Full Professor</rdfs:label>
    <rdfs:label xml:lang="de">Professor</rdfs:label>
    <rdfs:subClassOf>
      <owl:Class rdf:about="#FacultyMember"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Ungraduate">
    <rdfs:label xml:lang="de">Student</rdfs:label>
    <rdfs:label xml:lang="en">Student</rdfs:label>
    <rdfs:subClassOf>
      <owl:Class rdf:ID="Student"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="AssistantProfessor">
    <rdfs:subClassOf>
      <owl:Class rdf:about="#FacultyMember"/>
    </rdfs:subClassOf>
    <rdfs:label xml:lang="en">Assistant Professor</rdfs:label>
    <rdfs:label xml:lang="de">Professor</rdfs:label>
  </owl:Class>
  <owl:Class rdf:about="#Student">
    <rdfs:label xml:lang="de">Student</rdfs:label>
    <rdfs:label xml:lang="en">Student</rdfs:label>
    <rdfs:subClassOf>
      <owl:Class rdf:ID="Person"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="PhDStudent">
    <rdfs:label xml:lang="de">Doktorrant</rdfs:label>
    <rdfs:subClassOf>
      <owl:Class rdf:ID="Graduate"/>
    </rdfs:subClassOf>
    <rdfs:label xml:lang="en">PhD Student</rdfs:label>
  </owl:Class>
  <owl:Class rdf:about="#FacultyMember">
```

```
      <rdfs:label xml:lang="de">Fakulttsmitglied</rdfs:label>
      <rdfs:label xml:lang="en">Faculty Member</rdfs:label>
      <rdfs:subClassOf>
        <owl:Class rdf:ID="AcadamicStaff"/>
      </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:about="#ResearcherOntology">
    <rdfs:label xml:lang="en">Researcher Ontology</rdfs:label>
  </owl:Class>
  <owl:Class rdf:about="#Employee">
    <rdfs:label xml:lang="en">Employee</rdfs:label>
    <rdfs:label xml:lang="de">Angestellter</rdfs:label>
    <rdfs:subClassOf>
      <owl:Class rdf:about="#Person"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="University">
    <rdfs:label xml:lang="de">Universitt</rdfs:label>
    <rdfs:subClassOf>
      <owl:Class rdf:about="#Organization"/>
    </rdfs:subClassOf>
    <rdfs:label xml:lang="en">University</rdfs:label>
  </owl:Class>
  <owl:Class rdf:about="#Organization">
    <rdfs:subClassOf rdf:resource="#ResearcherOntology"/>
    <rdfs:label xml:lang="en">Organization</rdfs:label>
    <rdfs:label xml:lang="de">Organisation</rdfs:label>
  </owl:Class>
  <owl:Class rdf:ID="Manager">
    <rdfs:subClassOf rdf:resource="#Employee"/>
    <rdfs:label xml:lang="de">Manager</rdfs:label>
    <rdfs:label xml:lang="en">Manager</rdfs:label>
  </owl:Class>
  <owl:Class rdf:ID="ResearchProject">
    <rdfs:subClassOf rdf:resource="#Project"/>
    <rdfs:label xml:lang="de">Forschungsprojekt</rdfs:label>
    <rdfs:label xml:lang="en">Research Project</rdfs:label>
  </owl:Class>
  <owl:Class rdf:about="#Graduate">
    <rdfs:label xml:lang="de">Graduierter Student</rdfs:label>
    <rdfs:label xml:lang="en">Graduated Student</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Student"/>
  </owl:Class>
  <owl:Class rdf:ID="Company">
    <rdfs:label xml:lang="en">Company</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Organization"/>
    <rdfs:label xml:lang="de">Firma</rdfs:label>
  </owl:Class>
  <owl:Class rdf:about="#Person">
    <owl:versionInfo rdf:datatype="http://www.w3.org/2001/XMLSchema#string">TODO: Beim Hinzufgen von Induviduals kann man nicht zwischen professionellen und personal-Webseiten unterscheiden</owl:ve
    <rdfs:label xml:lang="de">Person</rdfs:label>
    <rdfs:label xml:lang="en">Person</rdfs:label>
    <rdfs:subClassOf rdf:resource="#ResearcherOntology"/>
  </owl:Class>
  <owl:Class rdf:ID="Anonymous-1">
    <owl:equivalentClass>
      <owl:Class>
        <owl:unionOf rdf:parseType="Collection">
          <owl:Class rdf:about="#University"/>
          <owl:Class rdf:about="#Institute"/>
        </owl:unionOf>
      </owl:Class>
    </owl:equivalentClass>
  </owl:Class>
  <owl:Class rdf:about="#AcadamicStaff">
    <rdfs:label xml:lang="en">Acadamic Staffmember</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Employee"/>
    <rdfs:label xml:lang="de">Akademischer Angestellter</rdfs:label>
  </owl:Class>
  <owl:Class rdf:ID="DevelopmentProject">
    <rdfs:label xml:lang="de">Entwicklungsprojekt</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Project"/>
    <rdfs:label xml:lang="en">Development Project</rdfs:label>
  </owl:Class>
  <owl:Class rdf:ID="Lecturer">
    <rdfs:label xml:lang="de">Lehrender</rdfs:label>
    <rdfs:label xml:lang="en">Lecturer</rdfs:label>
    <rdfs:subClassOf rdf:resource="#AcadamicStaff"/>
  </owl:Class>
  <owl:ObjectProperty rdf:ID="hasCorrespondent">
    <rdfs:label xml:lang="de">Korespondierende</rdfs:label>
    <owl:inverseOf>
      <owl:ObjectProperty rdf:ID="isCorrespondentOf"/>
    </owl:inverseOf>
    <rdfs:domain rdf:resource="#Project"/>
    <rdfs:label xml:lang="en">Correspondents</rdfs:label>
    <rdfs:range>
      <owl:Class>
        <owl:unionOf rdf:parseType="Collection">
          <owl:Class rdf:about="#Person"/>
          <owl:Class rdf:about="#Organization"/>
        </owl:unionOf>
      </owl:Class>
```

```
      </rdfs:range>
      <rdfs:subPropertyOf>
        <owl:ObjectProperty rdf:ID="hasMember"/>
      </rdfs:subPropertyOf>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:ID="involvedIn">
    <rdfs:label xml:lang="en">involved in</rdfs:label>
    <rdfs:range>
      <owl:Class>
        <owl:unionOf rdf:parseType="Collection">
          <owl:Class rdf:about="#Organization"/>
          <owl:Class rdf:about="#Project"/>
        </owl:unionOf>
      </owl:Class>
    </rdfs:range>
    <rdfs:label xml:lang="de">involviert in</rdfs:label>
    <owl:inverseOf>
      <owl:ObjectProperty rdf:about="#hasMember"/>
    </owl:inverseOf>
    <rdfs:domain>
      <owl:Class>
        <owl:unionOf rdf:parseType="Collection">
          <owl:Class rdf:about="#Person"/>
          <owl:Class rdf:about="#Organization"/>
        </owl:unionOf>
      </owl:Class>
    </rdfs:domain>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:ID="cooperatorOf">
    <rdfs:label xml:lang="de">Mitarbeiter von</rdfs:label>
    <rdfs:label xml:lang="en">Cooperator of</rdfs:label>
    <rdfs:range>
      <owl:Class>
        <owl:unionOf rdf:parseType="Collection">
          <owl:Class rdf:about="#Project"/>
          <owl:Class rdf:about="#WorkingGroup"/>
        </owl:unionOf>
      </owl:Class>
    </rdfs:range>
    <owl:inverseOf>
      <owl:ObjectProperty rdf:ID="hasCooperator"/>
    </owl:inverseOf>
    <rdfs:subPropertyOf rdf:resource="#involvedIn"/>
    <rdfs:domain rdf:resource="#Person"/>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:about="#hasCooperator">
    <rdfs:label xml:lang="en">Cooperator</rdfs:label>
    <rdfs:label xml:lang="de">Mitarbeiter</rdfs:label>
    <rdfs:domain>
      <owl:Class>
        <owl:unionOf rdf:parseType="Collection">
          <owl:Class rdf:about="#Project"/>
          <owl:Class rdf:about="#WorkingGroup"/>
        </owl:unionOf>
      </owl:Class>
    </rdfs:domain>
    <owl:inverseOf rdf:resource="#cooperatorOf"/>
    <rdfs:subPropertyOf>
      <owl:ObjectProperty rdf:about="#hasMember"/>
    </rdfs:subPropertyOf>
    <rdfs:range rdf:resource="#Person"/>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:ID="hasAssistant">
    <rdfs:domain rdf:resource="#WorkingGroup"/>
    <owl:inverseOf>
      <owl:ObjectProperty rdf:ID="isAssistantOf"/>
    </owl:inverseOf>
    <rdfs:label xml:lang="de">Assistent</rdfs:label>
    <rdfs:range rdf:resource="#Person"/>
    <rdfs:subPropertyOf>
      <owl:ObjectProperty rdf:about="#hasMember"/>
    </rdfs:subPropertyOf>
    <rdfs:label xml:lang="en">Assistant</rdfs:label>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:ID="coordinatorOf">
    <rdfs:domain rdf:resource="#Person"/>
    <rdfs:range rdf:resource="#WorkingGroup"/>
    <rdfs:label xml:lang="en">Coordinator of</rdfs:label>
    <rdfs:label xml:lang="de">Koordinator von</rdfs:label>
    <owl:inverseOf>
      <owl:ObjectProperty rdf:ID="hasCoordinator"/>
    </owl:inverseOf>
    <rdfs:subPropertyOf rdf:resource="#involvedIn"/>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:ID="hasStaffMember">
    <rdfs:subPropertyOf>
      <owl:ObjectProperty rdf:about="#hasMember"/>
    </rdfs:subPropertyOf>
    <owl:inverseOf>
      <owl:ObjectProperty rdf:ID="employedAt"/>
    </owl:inverseOf>
    <rdfs:label xml:lang="de">Angestellte</rdfs:label>
    <rdfs:domain>
```

```
    <owl:Class>
      <owl:unionOf rdf:parseType="Collection">
        <owl:Class rdf:about="#University"/>
        <owl:Class rdf:about="#Institute"/>
        <owl:Class rdf:about="#Project"/>
        <owl:Class rdf:about="#Department"/>
        <owl:Class rdf:about="#Company"/>
      </owl:unionOf>
    </owl:Class>
  </rdfs:domain>
  <rdfs:range rdf:resource="#Person"/>
  <rdfs:label xml:lang="en">Staffmember</rdfs:label>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="isDeputyCoordinatorOf">
  <rdfs:range rdf:resource="#WorkingGroup"/>
  <rdfs:label xml:lang="en">Deputy Coordinator of</rdfs:label>
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:label xml:lang="de">Vizekoordinator von</rdfs:label>
  <owl:inverseOf>
    <owl:ObjectProperty rdf:ID="hasDeputyCoordinator"/>
  </owl:inverseOf>
  <rdfs:subPropertyOf rdf:resource="#involvedIn"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="#isCorrespondentOf">
  <rdfs:range>
    <owl:Class>
      <owl:unionOf rdf:parseType="Collection">
        <owl:Class rdf:about="#Organization"/>
        <owl:Class rdf:about="#Project"/>
      </owl:unionOf>
    </owl:Class>
  </rdfs:range>
  <owl:inverseOf rdf:resource="#hasCorrespondent"/>
  <rdfs:label xml:lang="en">Correspondent of</rdfs:label>
  <rdfs:domain rdf:resource="#Organization"/>
  <rdfs:label xml:lang="de">korespondiert mit</rdfs:label>
  <rdfs:subPropertyOf rdf:resource="#involvedIn"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="#hasMember">
  <rdfs:label xml:lang="en">Members</rdfs:label>
  <rdfs:label xml:lang="de">Mitglieder</rdfs:label>
  <rdfs:domain>
    <owl:Class>
      <owl:unionOf rdf:parseType="Collection">
        <owl:Class rdf:about="#Project"/>
        <owl:Class rdf:about="#Organization"/>
      </owl:unionOf>
    </owl:Class>
  </rdfs:domain>
  <rdfs:range>
    <owl:Class>
      <owl:unionOf rdf:parseType="Collection">
        <owl:Class rdf:about="#Person"/>
        <owl:Class rdf:about="#Organization"/>
      </owl:unionOf>
    </owl:Class>
  </rdfs:range>
  <owl:inverseOf rdf:resource="#involvedIn"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="#hasCoordinator">
  <owl:inverseOf rdf:resource="#coordinatorOf"/>
  <rdfs:label xml:lang="en">Coordinator</rdfs:label>
  <rdfs:label xml:lang="de">Koordinator</rdfs:label>
  <rdfs:subPropertyOf rdf:resource="#hasMember"/>
  <rdfs:domain rdf:resource="#WorkingGroup"/>
  <rdfs:range rdf:resource="#Person"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="#hasDeputyCoordinator">
  <rdfs:subPropertyOf rdf:resource="#hasMember"/>
  <rdfs:range rdf:resource="#Person"/>
  <owl:inverseOf rdf:resource="#isDeputyCoordinatorOf"/>
  <rdfs:domain rdf:resource="#WorkingGroup"/>
  <rdfs:label xml:lang="en">Deputy Coordinator</rdfs:label>
  <rdfs:label xml:lang="de">Vizekoordinator</rdfs:label>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="#isAssistantOf">
  <rdfs:subPropertyOf rdf:resource="#involvedIn"/>
  <owl:inverseOf rdf:resource="#hasAssistant"/>
  <rdfs:range rdf:resource="#WorkingGroup"/>
  <rdfs:label xml:lang="de">Assistent von</rdfs:label>
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:label xml:lang="en">Assistant of</rdfs:label>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:ID="hasRepresentative">
  <rdfs:subPropertyOf rdf:resource="#hasMember"/>
  <rdfs:range rdf:resource="#Person"/>
  <owl:inverseOf>
    <owl:ObjectProperty rdf:ID="isRepresentativeOf"/>
  </owl:inverseOf>
  <rdfs:label xml:lang="de">Reprsentativer Ansprechpartner</rdfs:label>
  <rdfs:label xml:lang="en">Representative</rdfs:label>
  <rdfs:domain rdf:resource="#Organization"/>
</owl:ObjectProperty>
```

```
<owl:ObjectProperty rdf:about="#employedAt">
  <rdfs:label xml:lang="en">employed at</rdfs:label>
  <rdfs:range>
    <owl:Class>
      <owl:unionOf rdf:parseType="Collection">
        <owl:Class rdf:about="#Project"/>
        <owl:Class rdf:about="#Institute"/>
        <owl:Class rdf:about="#University"/>
        <owl:Class rdf:about="#Department"/>
        <owl:Class rdf:about="#Company"/>
      </owl:unionOf>
    </owl:Class>
  </rdfs:range>
  <rdfs:subPropertyOf rdf:resource="#involvedIn"/>
  <rdfs:label xml:lang="de">angestellt bei</rdfs:label>
  <rdfs:domain rdf:resource="#Person"/>
  <owl:inverseOf rdf:resource="#hasStaffMember"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="#isRepresentativeOf">
  <rdfs:label xml:lang="en">Representative of</rdfs:label>
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:label xml:lang="de">reprsentiert</rdfs:label>
  <rdfs:subPropertyOf rdf:resource="#involvedIn"/>
  <owl:inverseOf rdf:resource="#hasRepresentative"/>
  <rdfs:range rdf:resource="#Organization"/>
</owl:ObjectProperty>
<owl:DatatypeProperty rdf:ID="Employment">
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  <rdfs:label xml:lang="en">Employment</rdfs:label>
  <rdfs:label xml:lang="de">Berufsttigkeit</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="eMail">
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:label xml:lang="de">E-Mail</rdfs:label>
  <rdfs:label xml:lang="en">E-Mail</rdfs:label>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="longName">
  <rdfs:label xml:lang="de">Langname</rdfs:label>
  <rdfs:domain rdf:resource="#Organization"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  <rdfs:subPropertyOf>
    <owl:DatatypeProperty rdf:ID="name"/>
  </rdfs:subPropertyOf>
  <rdfs:label xml:lang="en">long Name</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="ProfessionalInterest">
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  <rdfs:label xml:lang="en">Professional Interests</rdfs:label>
  <rdfs:label xml:lang="de">Berufliche Interessen</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="shortName">
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  <rdfs:subPropertyOf>
    <owl:DatatypeProperty rdf:about="#name"/>
  </rdfs:subPropertyOf>
  <rdfs:label xml:lang="en">Short Name</rdfs:label>
  <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#FunctionalProperty"/>
  <rdfs:label xml:lang="de">Kurzname</rdfs:label>
  <rdfs:domain rdf:resource="#Organization"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="additionalInformation">
  <rdfs:domain rdf:resource="#ResearcherOntology"/>
  <rdfs:label xml:lang="de">zustzliche Informationen</rdfs:label>
  <rdfs:label xml:lang="en">additional Information</rdfs:label>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="professionalWebsite">
  <rdfs:label xml:lang="de">Berufliche Webseite</rdfs:label>
  <rdfs:label xml:lang="en">Professional Website</rdfs:label>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#anyURI"/>
  <rdfs:subPropertyOf>
    <owl:DatatypeProperty rdf:ID="website"/>
  </rdfs:subPropertyOf>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="picture">
  <rdfs:label xml:lang="en">Picture</rdfs:label>
  <rdfs:label xml:lang="de">Bild</rdfs:label>
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#anyURI"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="phoneNumber">
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  <rdfs:label xml:lang="de">Telefonnummer</rdfs:label>
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:label xml:lang="en">Phone Number</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="formerProfessionalInterest">
  <rdfs:label xml:lang="en">Former Professional Interests</rdfs:label>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:subPropertyOf rdf:resource="#ProfessionalInterest"/>
  <rdfs:label xml:lang="de">Frhere Berufliche Interessen</rdfs:label>
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</owl:DatatypeProperty>
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  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  <rdfs:subPropertyOf rdf:resource="#Employment"/>
  <rdfs:label xml:lang="de">aktuelle Berufsttigkeiten</rdfs:label>
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:label xml:lang="en">Current Employments</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="subject">
  <rdfs:label xml:lang="en">Subject</rdfs:label>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  <rdfs:label xml:lang="de">Fachgebiet</rdfs:label>
  <rdfs:domain rdf:resource="#Student"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:about="#website">
  <rdfs:label xml:lang="de">Webseite</rdfs:label>
  <rdfs:label xml:lang="en">Website</rdfs:label>
  <rdfs:domain rdf:resource="#ResearcherOntology"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#anyURI"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="faxNumber">
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:label xml:lang="en">Fax Number</rdfs:label>
  <rdfs:label xml:lang="de">Faxnummer</rdfs:label>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="personalWebsite">
  <rdfs:subPropertyOf rdf:resource="#website"/>
  <rdfs:label xml:lang="de">Private Webseite</rdfs:label>
  <rdfs:label xml:lang="en">Personal Website</rdfs:label>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#anyURI"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="currentProfessionalInterest">
  <rdfs:label xml:lang="de">Aktuelle Berufliche Interessen</rdfs:label>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  <rdfs:label xml:lang="en">Current Professional Interests</rdfs:label>
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:subPropertyOf rdf:resource="#ProfessionalInterest"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="formerEmployment">
  <rdfs:label xml:lang="en">Former Employments</rdfs:label>
  <rdfs:label xml:lang="de">Vergangene Berufsttigkeiten</rdfs:label>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  <rdfs:subPropertyOf rdf:resource="#Employment"/>
  <rdfs:domain rdf:resource="#Person"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:about="#name">
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  <rdfs:domain rdf:resource="#ResearcherOntology"/>
  <rdfs:label xml:lang="en">Name</rdfs:label>
  <rdfs:label xml:lang="de">Name</rdfs:label>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="country">
  <rdfs:label xml:lang="en">Country</rdfs:label>
  <rdfs:domain rdf:resource="#Organization"/>
  <rdfs:label xml:lang="de">Land</rdfs:label>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
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  <longName rdf:datatype="http://www.w3.org/2001/XMLSchema#string">University of Malta</longName>
  <shortName rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Malta</shortName>
  <website rdf:datatype="http://www.w3.org/2001/XMLSchema#string">http://www.cs.um.edu.mt</website>
  <hasMember>
    <FullProfessor rdf:ID="matthewMontebello">
      <website rdf:datatype="http://www.w3.org/2001/XMLSchema#string">http://staff.um.edu.mt/mmon1/</website>
      <name rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Dr. Matthew Montebello</name>
      <currentProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">CBL</currentProfessionalInterest>
      <ProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">

                                      Agent Technology  </ProfessionalInterest>
      <ProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Agent Technology  </ProfessionalInterest>
      <involvedIn rdf:resource="#maltaUni"/>
      <isRepresentativeOf rdf:resource="#maltaUni"/>
      <ProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">IT in Education  </ProfessionalInterest>
      <phoneNumber rdf:datatype="http://www.w3.org/2001/XMLSchema#string">no phone number given</phoneNumber>
      <eMail rdf:datatype="http://www.w3.org/2001/XMLSchema#string">mmont@cs.um.edu.mt</eMail>
      <ProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">

                                      IT in Education  </ProfessionalInterest>
      <ProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">AI and ML  </ProfessionalInterest>
      <ProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">

                                      AI and ML  </ProfessionalInterest>
      <involvedIn>
        <ResearchProject rdf:ID="REWERSE">
          <hasMember>
            <PhDStudent rdf:ID="patranjanPaula">
              <currentEmployment rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Research assistant at the Institute for Informatics, Ludwig-Maximilians-Universitt Munich</currentEmployment>
              <currentProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Semi-structured data and XML</currentProfessionalInterest>
              <ProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Update languages for XML/Web</ProfessionalInterest>
              <ProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Reactive behaviour on the Web</ProfessionalInterest>
              <involvedIn rdf:resource="#REWERSE"/>
              <website rdf:datatype="http://www.w3.org/2001/XMLSchema#string">http://www.pms.ifi.lmu.de/mitarbeiter/patranjan/</website>
```

```xml
<cooperatorOf>
  <WorkingGroup rdf:ID="i5">
    <hasMember>
      <University rdf:ID="hoegskolanSkoevede">
        <hasMember>
          <AssistantProfessor rdf:ID="berndtssonMikael">
            <involvedIn>
              <WorkingGroup rdf:ID="i1">
                <hasCooperator rdf:resource="#berndtssonMikael"/>
                <hasMember rdf:resource="#berndtssonMikael"/>
                <hasDeputyCoordinator>
                  <FullProfessor rdf:ID="antoniouGrigoris">
                    <Employment rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
1998-1999: Associate Professor in Computing &amp; Information Technology, Griffith University </Employment>
                    <phoneNumber rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
+30 2810 391624</phoneNumber>          <currentProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
Foundations of rule-based systems </currentProfessionalInterest>
                    <formerProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
My research interests have always centered around the aforementioned areas. In the time 1996-2001 I received a number of Australian research grants totalling over $1M.</formerProfessionalInterest>
                    <faxNumber rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
+30 2810 391638</faxNumber>          <formerEmployment rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
1998-1999: Associate Professor in Computing &amp; Information Technology, Griffith University </formerEmployment>
                    <Employment rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
1999-2001: Professor in Computing &amp; Information Technology, Griffith University </Employment>
                    <involvedIn>
                      <Institute rdf:ID="heraklionInstitute">
                        <hasMember rdf:resource="#antoniouGrigoris"/>
                        <hasRepresentative rdf:resource="#antoniouGrigoris"/>
                        <hasStaffMember>
                          <AssociateProfessor rdf:ID="plexousakisDimitris">
                            <phoneNumber rdf:datatype="http://www.w3.org/2001/XMLSchema#string">+30 2810 391637</phoneNumber>
                            <Employment rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Associate Professor, University Of Crete, Institute of Computer Science Foundation for
                            <cooperatorOf>
                              <WorkingGroup rdf:ID="a1">
                                <hasCooperator>
                                  <PhDStudent rdf:ID="sprangerStephanie">
                                    <currentProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Logic Programming</currentProfessionalInterest>
                                    <cooperatorOf>
                                      <WorkingGroup rdf:ID="i4">
                                        <hasCooperator>
                                          <AssistantProfessor rdf:ID="herzogMarcus">
                                            <ProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">information retrieval</ProfessionalInterest>
                                            <picture rdf:datatype="http://www.w3.org/2001/XMLSchema#string">http://www.dbai.tuwien.ac.at/staff/herzog/images/herzog.jpg</picture>
                                            <currentProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">XML processing</currentProfessionalInterest>
                                            <currentProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">semi-structured data</currentProfessionalInterest>
                                            <currentProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Semantic Web</currentProfessionalInterest>
                                            <cooperatorOf>
                                              <WorkingGroup rdf:ID="tta">
<additionalInformation rdf:datatype="http://www.w3.org/2001/XMLSchema#string">This is a REWERSE Activity</additionalInformation>
<hasMember>
  <Company rdf:ID="webXcerpt">
    <involvedIn rdf:resource="#tta"/>
    <hasStaffMember>
      <Person rdf:ID="geislerTim">
        <involvedIn rdf:resource="#REWERSE"/>
        <isRepresentativeOf rdf:resource="#webXcerpt"/>
        <involvedIn rdf:resource="#tta"/>
        <website rdf:datatype="http://www.w3.org/2001/XMLSchema#string">no website available</website>
        <eMail rdf:datatype="http://www.w3.org/2001/XMLSchema#string">tg@webxcerpt.com</eMail>
        <involvedIn rdf:resource="#webXcerpt"/>
        <coordinatorOf rdf:resource="#tta"/>
        <faxNumber rdf:datatype="http://www.w3.org/2001/XMLSchema#string">+49/89/548088-51</faxNumber>
        <name rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Tim Geisler</name>
        <employedAt rdf:resource="#webXcerpt"/>
        <cooperatorOf rdf:resource="#REWERSE"/>
        <picture rdf:datatype="http://www.w3.org/2001/XMLSchema#string">no picture available</picture>
        <phoneNumber rdf:datatype="http://www.w3.org/2001/XMLSchema#string">+49/89/548088-48</phoneNumber>
      </Person>
    </hasStaffMember>
    <hasMember rdf:resource="#geislerTim"/>
    <shortName rdf:datatype="http://www.w3.org/2001/XMLSchema#string">webXcerpt</shortName>
    <hasStaffMember>
      <Person rdf:ID="kulasAndrea">
        <currentProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Public Relations</currentProfessionalInterest>
        <currentProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Semantic Web</currentProfessionalInterest>
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        <Employment rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Institute of Transfer of Research and Technology, Ludwig-Maximilians-Universitt, Munich</Employment>
        <currentProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Interface of Research and Industry</currentProfessionalInterest>
        <cooperatorOf rdf:resource="#tta"/>
        <picture rdf:datatype="http://www.w3.org/2001/XMLSchema#string">http://rewerse.net/members/kulas_andrea/akulas.jpg</picture>
        <formerEmployment rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Institute of Transfer of Research and Technology, Ludwig-Maximilians-Universitt, Munich</formerEmployment>
        <currentProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Event Management</currentProfessionalInterest>
        <ProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Interface of Research and Industry</ProfessionalInterest>
        <ProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Semantic Web</ProfessionalInterest>
        <currentProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">E-learning</currentProfessionalInterest>
        <Employment rdf:datatype="http://www.w3.org/2001/XMLSchema#string">webXcerpt Software GmbH, Munich</Employment>
        <ProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">E-learning</ProfessionalInterest>
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        <formerProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Learning Sciences and Computer-Supported Collaborative Learning, Linguistics</formerProfessionalInteres
        <ProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Event Management</ProfessionalInterest>
        <ProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Public Relations</ProfessionalInterest>
        <involvedIn rdf:resource="#tta"/>
        <formerEmployment rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Massachusetts Institute of Technology (Program Comparative Media Studies), Boston</formerEmployment>
```

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            <involvedIn rdf:resource="#webXcerpt"/>
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            <eMail rdf:datatype="http://www.w3.org/2001/XMLSchema#string">ak@webxcerpt.com</eMail>
            <website rdf:datatype="http://www.w3.org/2001/XMLSchema#string">no website available</website>
            <name rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Andrea Kulas</name>
            <Employment rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Massachusetts Institute of Technology (Program Comparative Media Studies), Boston</Employment>
          </Person>
        </hasStaffMember>
        <hasRepresentative rdf:resource="#geislerTim"/>
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        <name rdf:datatype="http://www.w3.org/2001/XMLSchema#string">webXcerpt Software GmbH, Mnchen</name>
        <longName rdf:datatype="http://www.w3.org/2001/XMLSchema#string">webXcerpt Software GmbH, Mnchen</longName>
        <name rdf:datatype="http://www.w3.org/2001/XMLSchema#string">webXcerpt</name>
        <website rdf:datatype="http://www.w3.org/2001/XMLSchema#string">http://www.webxcerpt.de</website>
        <country rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Germany</country>
      </Company>
  </hasMember>
  <hasCoordinator rdf:resource="#geislerTim"/>
  <longName rdf:datatype="http://www.w3.org/2001/XMLSchema#string">TTA - Technology Transfer and Awareness </longName>
  <hasMember>
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      <hasStaffMember>
        <Person rdf:ID="carro-MartinezSara">
          <involvedIn rdf:resource="#telefonica"/>
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          <isDeputyCoordinatorOf rdf:resource="#tta"/>
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          <involvedIn rdf:resource="#tta"/>
          <employedAt rdf:resource="#telefonica"/>
          <eMail rdf:datatype="http://www.w3.org/2001/XMLSchema#string">scm@tid.es</eMail>
          <website rdf:datatype="http://www.w3.org/2001/XMLSchema#string">no website available</website>
          <phoneNumber rdf:datatype="http://www.w3.org/2001/XMLSchema#string">no phone number given</phoneNumber>
          <isRepresentativeOf rdf:resource="#telefonica"/>
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      </hasStaffMember>
      <longName rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Telefnica Investigacin y Desarrollo, Madrid</longName>
      <shortName rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Telefonica</shortName>
      <name rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Telefonica</name>
      <name rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Telefnica Investigacin y Desarrollo, Madrid</name>
      <hasMember rdf:resource="#carro-MartinezSara"/>
      <country rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Spain</country>
      <involvedIn rdf:resource="#tta"/>
      <involvedIn rdf:resource="#REWERSE"/>
      <hasRepresentative rdf:resource="#carro-MartinezSara"/>
    </Company>
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                <ProfessionalInterest rdf:datatype="http://www.w3.org/2001/XMLSchema#string">Digital Rights Management (DRM) for protection of intangible goo
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    <phoneNumber rdf:datatype="http://www.w3.org/2001/XMLSchema#string">+39 011 670 67 03</phoneNumber>
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