Number: 226513
Acronym: Webdam
Title: Foundations of Web Data Management

ERC Grant

Incremental 2011 Activity Report
Just new stuff since June 30th 2011 (Midterm report due)

Period covered: 30/06/2011 to 31/12/2011

1 Summary of the major achievements

[NoNews]

2 Publishable brief summary

[NoNews]

3 Major difficulties encountered

[NoNews]

4 List of keywords

[NoNews]

5 List of attachments

[NoNews]

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Project output records

1 Publications

In the bibliography entries, the keywork *ack* specifies that the corresponding publication acknowledges the ERC funding of Webdam. The keyword *open* specifies that the access to this publication is open followed by a link to the electronic version.

The publications marked open are all reachable from the Webdam publications page.

Journals

[1] Serge Abiteboul, T-H. Hubert Chan, Evgeny Kharlamov, Werner Nutt, and Pierre Senellart. Capturing continuous data and answering aggregate queries in probabilistic XML. *ACM Transactions on Database Systems*, 36(4), 2011.

Conferences

[2] Serge Abiteboul, Yael Amsterdamer, Daniel Deutch, Tova Milo, and Pierre Senellart. Finding optimal probabilistic generators for XML collections. In *Proc. ICDT*, Berlin, Germany, March 2012.

[3] Manuel Atencia, Jérôme Euzenat, Giuseppe Pirrò, and Marie-Christine Rousset. Alignment-based trust for resource finding in semantic p2p networks. In *International Semantic Web Conference*, pages 51–66, 2011.

[4] Evgeny Kharlamov and Dmitriy Zheleznyakov. Capturing instance level ontology evolution for dl-lite. In *International Semantic Web Conference*, pages 321–337, 2011.

[5] Fabian M. Suchanek, Serge Abiteboul, and Pierre Senellart. PARIS: Probabilistic alignment of relations, instances, and schema. *Proceedings of the VLDB Endowment*, December 2011. Presented at the VLDB 2012 conference, Istanbul, Turkey.

[6] Fabian M. Suchanek, David Gross-Amblard, and Serge Abiteboul. Watermarking for ontologies. In *ISWC 2011: Proceedings of the 10th International Semantic Web Conference*, 2011.

Workshops

[7] Evgeny Kharlamov and Dmitriy Zheleznyakov. On prototypes for Winslett's semantics of DL-Lite ABox evolution. In *Proc. Description Logics Workshop (DL)*, 2011.

Demonstrations (in proceedings of international conferences)

Book

[8] Michael Benedikt and Pierre Senellart. Databases. In Edward K. Blum and Alfred V. Aho, editors, *Computer Science. The Hardware, Software and Heart of It*. Springer-Verlag, January 2012.

Book Chapter

Others

[9] Alban Galland. *Distributed Data Management with Access Control*. PhD thesis, Université Paris-Sud, 2011.

2 Research expeditions

Not applicable

3 Awards and recognitions

3.1 Research Prizes

- **[NoNews]**

3.2   Memberships of a learned society

- Serge Abiteboul has been elected to the Academia Europea. He has also been elected ACM Fellow.

- Serge Abiteboul is Professor at Collège de France for 2011-2012 on the Computer Science Chair.

3.3   Memberships of editorial boards

- [**NoNews**]

3.4   Others

- [**NoNews**]

4   Patents, licencing, intellectual property

5   Dissemination to non-academic audience

- [**NoNews**]

6   Other significant output

See Attachment III.

I Participants

- [**NoNews**]

PhD Students

- [**NoNews**]

Other full-time members

- [**NoNews**]

Collaborators

- [**NoNews**]

Webdam Alumni

- Webdam members are very successful in academia (...) Alban Galland join the french minister "Ministère de l'Économie, des Finances et de l'Industrie" after his thesis.

- Members of Webdam are also successful in industry, [[**NoNews**]]

Visitors (one month or more)

- [**NoNews**]

We also had many shorter visits, notably, Gerome Miklau (U. Washington) and Julia Stoyanovich (U. Penn).

II Research results in more detail

II.1 The Web as a distributed knowledge base

[NoNews]

II.2 The Web as a probabilistic world

[NoNews]

II.3 Sequencing tasks on the Web

[NoNews]

II.4 Other topics

II.4.1 Analysis of distributed data management

[NoNews]

II.4.2 Ontologies and ontology alignment

[NoNews]

II.4.3 Evolution of ontologies

[NoNews]

II.4.4 Web archiving

[NoNews]

II.4.5 Deep Web data

[NoNews]

II.4.6 Query enumeration

[NoNews]

II.4.7 Monitoring

[NoNews]

II.4.8 Distributed XML design

[NoNews]

III   Dissemination

III.1   PhD Theses

Alban Galland (2011) Distributed Data Management with Access Control[9]

III.2   Habilitation thesis

[**NoNews**]

III.3   Participation in conference programs

Pierre Senellart was member of the program committee of ACM Symposium on Principles of Database Systems (PODS) 2009.

III.4   Participation in conference organization

[**NoNews**]

III.5   Invited presentations and tutorials

- Serge Abiteboul gave half day tutorials at the thematic school of the University ES-Sénia, Oran, Algeria and the Journées Nationales AP-MEP.

- Pierre Senellart and Evgeny Kharlamov gave a tutorial at the French database conference on probabilistic data management in Rabat in October 2011.

- Pierre Senellart gave a keynote talk at the International Workshop on Big-Data Analytics for the Temporal Web in Paris in November 2011.

- Pierre Senellart gave a tutorial on distributed computing and indexing at the French-German summer school for young researchers in Frauenchiemsee in July 2011.

III.6   Webdam workshops

[**NoNews**]

III.7   Books

[**NoNews**]