

Curriculum Vitae

PERSONAL DETAILS

Last name Oren
First name Eyal
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Vrije Universiteit
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Homepage <http://www.eyaloren.org>
Date of birth 2 May 1979
Nationality Dutch and Israeli

WORK EXPERIENCE

12/2007 – now Postdoc researcher, *Vrije Universiteit Amsterdam*
09/2006 – 10/2007 Research assistant, *National Univ. of Ireland, Galway*
project management, student supervision, research dissemination
02/2004 – 08/2006 PhD fellowship, *National Univ. of Ireland, Galway*
08/2003 – 11/2003 Teacher, *Basic-IT Training, Tilburg*
teaching Microsoft programming courses
09/2002 – 05/2003 Internship, *ModulOr Technology, Rotterdam*
development of workflow management system
09/2001 – 08/2002 Teacher, *Gymnasium Haganum, Den Haag*
highschool physics teacher
09/1998 – 08/2001 Teaching assistant, *Delft University of Technology*
supervision and examination of practical assignments

EDUCATION

02/2004 – 11/2007 PhD, Computer Science, *DERI Galway*
title: Algorithms and Components for Application Development on the
Semantic Web
supervisor: prof. dr. S. Decker
examiner: prof. dr. F. van Harmelen
02/2005 – 04/2005 visiting scholar Stanford University
host: prof. dr. M. Genesereth
04/2005 – 07/2005 exchange visitor Innsbruck University
host: prof. dr. D. Fensel
09/1997 – 05/2003 MSc, Technical Informatics, *TU Delft*
specialisation: Information Systems Design
supervisor: prof. dr. ir. J. Dietz
thesis grade: 9 (scale 1–10)

09/1998 – 08/1999 Political Science, *Leiden University*
 09/1991 – 08/1997 VWO, *Scholengemeenschap 'het Rhedens'*, Rozendaal
 subjects: dutch, english, physics, chemistry, mathematics, economics,
 history; grade average: 8 (scale 1–10)

LANGUAGES

Dutch	Mother tongue
English	Fluent
Hebrew	Good (spoken)
German	Good (spoken)
French	Basic skills

SKILLS

Programming	Java, C#, Ruby, Python, Rails, SQL, Hadoop, \LaTeX , XML
Development	Eclipse, Visual Studio, Emacs, VIM, CVS, SVN, Bazaar
Modelling	UML, ORM, RDF(S), OWL, WSML, IDEF, F-Logic
Industrial	SqlServer, MySQL, MS BizTalk, IBM Workflow MQ, iFlow

SUPERVISION

09/2006 – 06/2007	Benjamin Heitmann, M.Sc. thesis Transitioning Web Application Frameworks towards the Semantic Web
06/2006 – 12/2006	Sebastian Gerke, M.Sc. thesis Simplifying Semantic Annotations in Text
01/2006 – 07/2006	Renaud Delbru, M.Sc. thesis Manipulation and Exploration of Semantic Web Knowledge

ORGANISATION

03/2008	Substitute director, SIKS course on Web-based systems
12/2005	Organiser, DERI research seminar
06/2005	Organiser, W3C workshop on SWS
11/2004	Organiser, WSMO Implementation Workshop

CONFERENCE PROGRAMME COMMITTEE

02/2008	23rd International Conference on Artificial Intelligence
12/2007	17th International World-Wide Web Conference
09/2007	23rd International Symposium on Applied Computing
01/2007	3rd International Conference on Semantic Technologies

WORKSHOP PROGRAMME COMMITTEE

05/2008	Social Data on the Web, ISWC 2008
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05/2008	Incentives for the Semantic Web, ISWC 2008
03/2008	Workshop on Semantic Wikis, ESWC 2008
03/2008	Semantic Metadata Management, ESWC 2008
03/2008	Scripting for the Semantic Web, ESWC 2008
02/2008	Linked Data on the Web, WWW 2008
02/2008	Social Web and Knowledge Management, WWW 2008
03/2007	Engineering Semantic Agent Systems, CompSAC 2007
11/2006	Semantic Authoring and Annotation, ISWC 2006
05/2006	Engineering Semantic Agent Systems, CompSAC 2006
06/2006	Workshop on Semantic Wikis, ESWC 2006
09/2005	Workshop on Technologies for E-Services, VLDB 2005

JOURNAL REVIEWER

03/2008	Data & Knowledge Engineering
05/2007	Int. Journal on Semantic Web and Inf. Systems
08/2005	Int. Journal of Cooperative Information Systems
07/2005	European Journal of Operational Research
05/2005	Int. Journal of Cooperative Information Systems
03/2005	ACM Transactions on Database Systems
12/2004	Data & Knowledge Engineering

CONFERENCE REVIEWER

12/2006	16th International World Wide Web Conference
07/2006	5th International Conference on Ontologies, Databases, and Applications of Semantics
05/2006	15th International Conference on Knowledge Engineering and Knowledge Management
01/2006	3rd European Semantic Web Conference
12/2005	15th International World Wide Web Conference
03/2005	5th International Conference on Web Engineering
01/2005	2nd European Semantic Web Conference

PROJECT INVOLVEMENT

Management	Co-managed the m3pe project on workflow interoperability (SFI, €243K), co-authored and initially managed the FAST project on service mashups (EU FP7 STREP, €491K, total €5.5M), involved in the proposal of the ASG project on service grids (EU FP6 IP).
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Standards Involvement in the European Semantic Web Service standardisation and development working groups, co-author of the WSMO and WSMX W3C member submissions, and co-designed the WSMX architecture for Semantic Web Service discovery and execution.

Member Involvement in the European projects Nepomuk (social Semantic desktop), inContext (collaborative work environments) and the Irish (SFI) funded project Lón (Semantic Web infrastructure).

SOFTWARE

Sindice I was lead developer of *Sindice.com*, a Semantic Web lookup service. Sindice is built on a parallel Hadoop cluster and indexes large amount of Semantic Web data using novel reasoning algorithms.

ActiveRDF I have developed *ActiveRDF*, a mapping library that exposes RDF data as programmatic objects in Ruby, including querying and schema support. ActiveRDF integrates with Ruby on Rails into a rapid application framework for the Semantic Web.

SemperWiki I have developed *SemperWiki*, a semantic personal Wiki that focuses on usability, simplicity and retrieval.

WSMX I co-developed the WSMX system. I designed the WSML grammar and developed the WSMX parser component.

PERSONAL

I enjoy acting on stage, in plays, musicals, cabaret and music. I like reading, listening to classical music and playing soccer.

REFERENCES

Stefan Decker, DERI Galway
Dieter Fensel, STI Innsbruck
Frank van Harmelen, VU Amsterdam

PUBLICATIONS

- P. KOTINURMI, A. HALLER, AND E. OREN. Ontologically enhanced RosettaNet B2B integration. In *Semantic Web Methodologies for E-Business Applications: Ontologies, Processes and Management Practices*. IGI Global, 2008. To appear.
- M. VÖLKEL, S. SCHAFFERT, AND E. OREN. Personal knowledge management with semantic technologies. In J. RECH, B. DECKER, AND E. RAS, (eds.) *Emerging Technologies for Semantic Work Environments: Techniques, Methods, and Applications*. IGI Global, 2008. To appear.
- E. OREN, R. DELBRU, M. CATASTA, R. CYGANIAK, H. STENZHORN, AND G. TUMMARELLO. Sindice.com: A document-oriented lookup index for open linked data. *International Journal of Metadata, Semantics and Ontologies*, 3(1), 2008a. To appear.
- E. OREN, B. HEITMANN, AND S. DECKER. ActiveRDF: embedding Semantic Web data into object-oriented languages. *Journal of Web Semantics*, 2008b. To appear.
- E. OREN. *Algorithms and Components for Application Development on the Semantic Web*. Ph.D. thesis, National University of Ireland, Galway, Nov. 2007.
- G. TUMMARELLO, R. DELBRU, AND E. OREN. Sindice.com: Weaving the open linked data. In *Proceedings of the International Semantic Web Conference (ISWC)*, pp. 552–565. Nov. 2007.
- E. OREN, R. DELBRU, S. GERKE, B. HEITMANN, AND S. DECKER. Application development on the Semantic Web. *ACM Transactions on the Web*, Oct. 2007a. Submitted.
- E. OREN, C. MESNAGE, B. HEITMANN, A. HALLER, M. HAUSWIRTH, AND S. DECKER. A flexible integration framework for Semantic Web 2.0 applications. *IEEE Software*, 24(5):64–71, Sep. 2007b.
- U. BOJARS, B. HEITMANN, AND E. OREN. A prototype to explore content and context on social community sites. In *Proceedings of the International Conference on Social Semantic Web (CSSW)*, pp. 47–58. Sep. 2007.
- C. MESNAGE AND E. OREN. Extending Ruby on Rails for Semantic Web applications. In *Proceedings of the International Conference on Web Engineering*, pp. 506–510. Jul. 2007.
- E. OREN, S. GERKE, AND S. DECKER. Simple algorithms for predicate suggestions using similarity and co-occurrence. In *Proceedings of the European Semantic Web Conference (ESWC)*, pp. 160–174. Jun. 2007c.
- E. OREN AND G. TUMMARELLO. A lookup index for semantic web resources. In *Proceedings of the ESWC Workshop on Scripting for the Semantic Web*, pp. 71–78. Jun. 2007.
- B. HEITMANN AND E. OREN. Leveraging existing web frameworks for a SIOC explorer to browse online social communities. In *Proceedings of the ESWC Workshop on Scripting for the Semantic Web*, pp. 52–61. Jun. 2007.
- E. OREN, R. DELBRU, S. GERKE, A. HALLER, AND S. DECKER. ActiveRDF: Object-oriented semantic web programming. In *Proceedings of the International World-Wide Web Conference*, pp. 817–823. May 2007d.

- A. HALLER, P. KOTINURMI, T. VITVAR, AND E. OREN. Handling heterogeneity in RosettaNet messages. In *Proceedings of the Annual ACM Symposium on Applied Computing (SAC)*, pp. 1368–1374. Mar. 2007.
- E. OREN. An overview of information management and knowledge work studies: Lessons for the semantic desktop. In *Proceedings of the ISWC Workshop on the Semantic Desktop*. Nov. 2006.
- E. OREN, R. DELBRU, AND S. DECKER. Extending faceted navigation for RDF data. In *Proceedings of the International Semantic Web Conference (ISWC)*, pp. 559–572. Nov. 2006a.
- E. OREN, M. VÖLKEL, J. G. BRESLIN, AND S. DECKER. Semantic wikis for personal knowledge management. In *Proceedings of the International Conference on Database and Expert Systems Applications (DEXA)*, pp. 509–518. Sep. 2006b.
- A. HALLER, E. OREN, AND P. KOTINURMI. m3po: An ontology to relate choreographies to workflow models. In *Proceedings of the IEEE International Conference on Services Computing (SCC)*, pp. 19–27. Aug. 2006a.
- M. VÖLKEL AND E. OREN. Towards a Wiki Interchange Format (WIF) – opening semantic wiki content and metadata. In *Proceedings of the ESWC Workshop on Semantic Wikis*. Jun. 2006.
- E. OREN AND R. DELBRU. ActiveRDF: Object-oriented RDF in Ruby. In *Proceedings of the ESWC Workshop on Scripting for the Semantic Web*, pp. 11–20. Jun. 2006.
- E. OREN, R. DELBRU, K. MÖLLER, M. VÖLKEL, AND S. HANDSCHUH. Annotation and navigation in semantic wikis. In *Proceedings of the ESWC Workshop on Semantic Wikis*. Jun. 2006c.
- A. HALLER AND E. OREN. m3pl: A work-FLOWS ontology extension to extract choreography interfaces. In *Proceedings of the ESWC Workshop on Semantics for Business Process Management*. Jun. 2006.
- A. HALLER, E. OREN, AND P. KOTINURMI. An ontology for internal and external business processes. In *Proceedings of the International World-Wide Web Conference*, pp. 1055–1056. May 2006b.
- E. OREN, J. G. BRESLIN, AND S. DECKER. How semantics make better wikis. In *Proceedings of the International World-Wide Web Conference*, pp. 1071–1072. May 2006d.
- E. OREN. SemperWiki: a semantic personal Wiki. In *Proceedings of the ISWC Workshop on the Semantic Desktop*. Nov. 2005.
- A. HALLER, E. CIMPIAN, A. MOCAN, E. OREN, AND C. BUSSLER. WSMX - A semantic service-oriented architecture. In *Proceedings of the IEEE International Conference on Web Services (ICWS)*, pp. 321–328. Jul. 2005.
- C. BUSSLER, E. CIMPIAN, D. FENSEL, J. M. GOMEZ, A. HALLER, T. HASELWANTER, M. KERRIGAN, A. MOCAN, M. MORAN, E. OREN, B. SAPKOTA, I. TOMA, J. VISKOVA, T. VITVAR, M. ZAREMBA, AND M. ZAREMBA. Web service execution environment (WSMX). W3C Member Submission, Jun. 2005.
- J. DE BRUIJN, C. BUSSLER, J. DOMINGUE, D. FENSEL, M. HEPP, U. KELLER, M. KIFER, B. KÖNIG-RIES, J. KOPECKY, R. LARA, H. LAUSEN, E. OREN,

A. POLLERES, D. ROMAN, J. SCICLUNA, AND M. STOLLBERG. Web service modeling ontology (WSMO). W3C Member Submission, Jun. 2005.

E. OREN. WSMX execution semantics – executable software specification. In *Proceedings of the Workshop on WSMO Implementations*. Sep. 2004.

E. OREN, A. WAHLER, B. SCHREDER, A. BALABAN, M. ZAREMBA, AND M. ZAREMBA. Demonstrating WSMX – least cost supply management. In *Proceedings of the Workshop on WSMO Implementations*. Sep. 2004.

E. OREN AND J. L. G. DIETZ. Development of a DEMO based workflow management system. In *First International DEMO Workshop*. May 2003.

E. OREN. *Van DEMO naar Workflow Management*. Master's thesis, Delft University of Technology, Apr. 2003. In Dutch.

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