

# Dr. Darijus Strašunskas

Dept. of Industrial Economics and Technology Management,  
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## CURRICULUM VITAE

### PROFILE

Darijus Strašunskas (PhD 2006) is a postdoc researcher at Norwegian University of Science and Technology (NTNU). His main research interests include, but are not limited to quantitative and qualitative evaluation of novel and traditional business models, intelligent information retrieval, and ontology quality aspects, as well as deployment of semantic technologies for information management. His publication list includes over 45 articles in international refereed books, journals, conferences, and workshops. He has been awarded for his contribution to science (best paper awards at the BIS 2009 and WSKS 2008 conferences) and practice (award for an outstanding performance at Kraft Foods International in 2001).

### EDUCATION

**Jun 2001 — Mar 2006: Dr.ing (PhD) degree in Information Systems** (Examination: March 9<sup>th</sup>, 2006)

Title: "Domain Model-Centric Distributed Development: An approach to semantics-based change impact management".

Supervisor: Prof. A. Sølvsberg, Dept. of Computer & Information Science, NTNU, Norway.

**Sept 1998 — Jun 2000: MSc degree in Management Information Systems**

Title: "Analysis of Information System Reengineering Process".

Supervisor: Prof. R. Butleris, Vilnius University (VU), Lithuania.

**Sept 1994 — Jun 1998: Bachelor's degree in Business Management** (specialization in Management Information Systems)

Title: "Information System for Production Planning".

School: Vilnius University (VU), Lithuania.

### WORK EXPERIENCES

**Jun 2001 – ... Research positions @ Norwegian University of Science and Technology (NTNU), Norway**

**MAIN ACTIVITIES** **Aug 2008 – ... PostDoc at Dept. of Industrial Economics & Technology Management.**

PostDoc researcher in the Valuation Methodology of Integrated Operations (IO) project: valuating intangible and tangible benefits from enhancing information, integrating competences and changing work processes. Case studies with ConocoPhillips, Total E&P and Sintef Marintek. As well as extending the method to value new technologies in the offshore wind industry (Nowitech research consortium).

**Nov 2007 – Jun 2008 Researcher at Dept. of Industrial Economics & Technology Management** in Telecommunication Economics / Operations Research financed by the FP6 IST SPICE project (*Service Platform for Innovative Communication Environment*). Implementation of framework for quantitative analysis of scenarios and valuation of SPICE services usage. Coordinator and edit lead of the deliverable D1.7 "Revised business analysis and models" - quantitative analysis of novel and traditional business models for provision of mobile services. Cooperation with Telenor R&I.

**Dec 2005 – Aug 2007 Researcher at Dept. of Computer & Information Science** in the IIP project (*Integrated Information Platform for Reservoir and Subsea Production Systems*). Development of a framework to evaluate quality of ontologies used for Information Retrieval, investigate possibilities and restrictions for rule based notification in OWL Full. Cooperation with FMC and Det Norske Veritas (DNV).

**Jun 2001 – Dec 2005 Doctoral Student at Dept. of Computer & Information Science.** Development of a framework for distributed product fragments management to facilitate the coordination and management of the development process, and methodological approach for integration and manipulation of all information produced during the project. Implementation of a prototype system.

**OTHER ACTIVITIES** Organising international workshops, serving as program committee and reviewer for journals and international conferences, assisting in project proposal writing, supervising Master students, teaching and examination.

**Apr 2010 Adjunct Assoc. Professor at ISM University of Management and Economics, Lithuania.**

**MAIN ACTIVITIES** Teaching Information Technology - an undergraduate course for Business Management students.

Full course responsibility (preparation of course description, material, giving lectures, making

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	practical exercises, preparing and evaluating exam questions).
<b>Sept 2007</b>	<b>Visiting Lecturer and Researcher at Dept. of Information Systems (KTU), Lithuania</b>
MAIN	Lectures and collaboration on the Semantic Web and Semantic Technologies, Intelligent
ACTIVITIES	Information Retrieval and Ontology Quality topics.
<b>Oct 2000 – May 2001</b>	<b>Teaching assistant, Vilnius University, Lithuania</b>
MAIN	Teaching assistant. Introductory courses to PC and Microsoft Office.
ACTIVITIES	
<b>Jun 1997 – Jul 2001</b>	<b>Finance analyst at FP&amp;A / Plant Controller Depts., Kraft Foods International, Lithuania</b>
MAIN	<b>Apr 2001 - Jul 2001</b> Key user of the manufacturing module. Duties: computerization of production
ACTIVITIES	processes.
	<b>Sept 2000 - Apr 2001</b> ERP system implementation. Duties: implementation of manufacturing module of MFG/PRO ver.9.0, by QAD Inc, documentation and end-users training.
	<b>Mar 1998 - Sept 2000</b> Manufacturing finance analyst. Duties: Manufacturing P&L statement preparation; Analysis of the manufacturing costs and processes; Generating cost saving ideas; Evaluation of Capital Expenditures needs; Tracking of the CapEx and savings projects; Standard-costs accounting.
	<b>Jun 1997 - Mar 1998</b> Manufacturing costs analyst. Duties: Analysis of the manufacturing costs; Variable and fixed costs reduction.
OTHER	<b>Oct 2000 – Nov 2000</b> Temporal project manager for Part I of Factory Site and Administration
ACTIVITIES	Building Reconstruction (project size: 200 K USD (part I) of total 2.5 MM USD).
	<b>Dec 1998 – Sept 1999</b> Project manager assistant – Snacks factory construction (project size: ~ 7 MM USD) – responsible for control of the project's financial part, cash flow and expenditures.

## ACADEMIC AND OTHER ACTIVITIES

<b>Academic activities and experiences</b>	
MEMBER OF PROGRAM COMMITTEE	<i>DEXA</i> – Int'l Conf. on Database and Expert Systems Applications, 2009 – 2011; <i>Baltic DB&amp;IS</i> - Baltic conference on Databases and Information systems, 2012; <i>BIS</i> - Int'l Conf. on Business Information Systems, 2011; <i>ICIME</i> - Int'l Conf. on Information Management and Evaluation, 2010 – 2012; <i>BUSTECH</i> - Int'l Conf. on Business Intelligence and Technology, 2011; <i>AKTB</i> - Workshop on Applications of Knowledge-Based Technologies in Business, 2010 – 2011; <i>OnAV</i> – Int'l Workshop on Ontology Alignment and Visualization, 2008 – 2010; <i>IT</i> – Int'l Conf. on Information and Software Technologies, 2008 – 2010; <i>CollaborativeTech-Conf</i> – IADIS Int'l Conf. on Collaborative Technologies, 2010 – 2011; <i>ECIME</i> – European Conf. on Information Management and Evaluation, 2010; <i>ICIME</i> – Int'l Conf. on Information Management and Evaluation, 2010 – 2011; <i>WSKS</i> – World Summit on the Knowledge Society, 2008 – 2010; <i>QAW</i> – Workshop on Quality Assessment in Web, 2009 <i>ECONOM</i> - Int'l Workshop on the Economics of Knowledge-based Technologies, 2009 <i>IC-WebScience</i> – Int'l Conf. on Web Science, 2009 <i>ISD</i> – Int'l Conf. on Information Systems Development, 2008 – 2009; <i>IRMA</i> – (track on Enterprise Information Systems), 2007; <i>BIR</i> – Int'l Conf. on Perspectives in Business Informatics Research, 2006 – 2007; <i>CAiSE Doctoral Consortium</i> , 2005 – 2006; <i>IBIMA</i> – IBIMA 2005 Int'l Conf. on Information Management in Modern Enterprise, 2005.
ORGANIZED INTERNATIONAL WORKSHOP	<i>ENQOIR 2009</i> – First International Workshop on Aspects in Evaluating Holistic Quality of Ontology-driven Information Retrieval; <i>STAB 2007</i> – First International Workshop on Semantic Technologies Adoption in Business.
REVIEWER	<i>EJIS</i> - European Journal of Information Systems (4), 2010-2011 <i>Elsevier Journals</i> : - Computer Standards and Interfaces (1), 2010 - Data and Knowledge Engineering (4), 2010-2011 - Information and Software Technology (4), 2009-2011

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	<p><i>INFORMATICA</i> (1), 2007 <i>AMCIS</i> – Americas Conf. on Information Systems, 2010; <i>ECIS</i> - European Conf. on Information Systems, 2010; <i>NLDB</i> - Int'l Conf. on Applications of Natural Language to Information Systems, 2006 – 2007; <i>CONFENIS</i> - The IFIP Int'l Conf. on Research and Practical Issues of Enterprise Information Systems, 2006; <i>ER</i> - Int'l Conf. on Conceptual Modeling, 2002 - 2003, 2005; <i>ICSE</i> - Int'l Conf. on Software Engineering, 2005 - Experience Track; <i>CAiSE</i> - Conf. on Advanced Information Systems Engineering, 2003 – 2004; <i>ISD</i> - Information Systems Development, 2004; <i>EJC</i> - European-Japanese Conference on Information Modelling and Knowledge Bases, 2004; <i>RE</i> - Int'l Requirements Engineering Conference, 2003; <i>ISTA</i> - Int'l Conf. on Information Systems Technology and its Applications, 2003; <i>REFSQ</i> - Requirements Engineering: Foundation for Software Quality, 2002.</p> <hr/>
TEACHING	<p><i>Qualitative and Quantitative Methods for (E)valuation of ICT Benefits</i></p> <ul style="list-style-type: none"><li>o Summer school of the MINE (Methodologies for Interactive Networked Enterprises) project (Summer 2009)</li></ul> <p><i>Networked Services and Multimedia Systems, advanced</i></p> <ul style="list-style-type: none"><li>o External examiner for oral exam (Fall 2007)</li></ul> <p><i>Customer driven project</i></p> <ul style="list-style-type: none"><li>o Supervising a group of students - Project: Web Services in the ISO 15926 Reference Data System, Customer: Det Norske Veritas (Fall 2006)</li><li>o Supervising a group of students - Project: Business process visualization tool based on SAP activity logs, Customer: Businesscape (Fall 2004)</li></ul> <p><i>Knowledge in Document Collections / Web Intelligence</i></p> <ul style="list-style-type: none"><li>o Giving lectures on ontology and OWL (Spring 2007)</li><li>o Giving lectures on ontology and OWL, preparing a part of exam questions (Spring 2006)</li><li>o Teaching 1/3 of the course, responsible for 1/3 of exercises, preparing exam tasks and evaluating (Fall 2002)</li></ul> <p><i>Information System - Introductory course</i></p> <ul style="list-style-type: none"><li>o Giving two lectures on Enterprise Systems (ERP), responsible for management of exercises (Spring 2007)</li><li>o Responsible for exercise lectures, management of exercises and allocated student assistants, partial exam tasks preparation and evaluation (Spring 2004)</li><li>o Supervising implementation of web-based system for exercise delivery and evaluation used for the course (Fall 2003)</li></ul> <p><i>Information System Modelling</i></p> <ul style="list-style-type: none"><li>o Assisting in exercise management and evaluation (Spring 2002)</li></ul> <p><i>Computer supported cooperative work</i></p> <ul style="list-style-type: none"><li>o Assisting in exercise management and evaluation, Lotus Notes administration (Fall 2001)</li></ul> <hr/>
SESSION CHAIR	<p>IT 2011, <i>Ontology, Conceptual Modelling and Databases</i> ICTBM 2011, <i>Operations Management</i> IT 2009, <i>Business Process Modelling, Analysis and Design</i> STAB 2007, <i>Semantic Technology Adoption in Business</i> CoopIS 2006, 2 sessions: <i>Cooperative IS Applications</i> and <i>Collaborative Systems Design &amp; Development</i></p> <hr/>
ASSISTING IN ARRANGEMENT OF INTERNATIONAL EVENTS	<p><i>Seminar Semantics &amp; Search</i>, Trondheim, Norway, 2006. <i>InfoSam2020</i> - The Information Society of 2020-an exercise in planning for the future, Trondheim, Norway, 2004. <i>HiNC</i> – The 1st Conference on the History of Nordic Computing, Trondheim, Norway, 2003.</p>

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## AWARDS AND HONORS

- KFI, 2001 Letter of commendation for an excellent performance at Kraft Foods International (ERP implementation).
- BIS, 2009 The best paper award at the Business Information Systems conference.
- WSKS, 2008 The third best paper award in track III on Information Technologies for the Knowledge Society: knowledge management systems, e-business, enterprise information systems.

## LANGUAGES

Lithuanian (*mother-tongue*); English (*fluent oral, written, comprehension*); Norwegian, Russian (*proficient oral, written, comprehension*); Polish (*intermediate*).

## COMPUTER SKILLS

- OS:** Windows, Mac, Linux, Android.
- Programming languages:** Python, PHP, Visual Basic, Matlab, Delphi, Clarion, Visual FoxPro.
- DBMS:** PostgreSQL, MySQL.
- Mark-up languages:** XML, HTML, OWL, RDF.
- Modelling tools:** Metis, Process Team, Provision Workbench 3.1, MS Visio, e3value, SmartDraw.
- Statistical tools:** SPSS, Statistica.
- ERP & enterprise systems:** end-user and implementation experience with MFG/PRO (all modules, in particular manufacturing), end-user experience with SUN (GL module), Hyperion, Hansa; theoretical knowledge of SAP R/3 – course taken during PhD studies.
- Miscellaneous:** MS Office, Latex.

## HOBBY

Photography, free-diving, geocaching, fishing, skiing.

## PUBLICATIONS

*Selected refereed publications\*:*

1. Tomassen, S.L., Strašunskas, D. *Measuring intrinsic quality of semantic search based on feature vectors*. Int. J. Metadata, Semantics and Ontologies, 5(2), 2010, 120-133.
2. Strašunskas, D., Tomassen, S.L. *On Variety of Semantic Search Systems and Their Evaluation Methods*. Proceedings of International Conference on Information Management and Evaluation, 2010.
3. Strašunskas, D., Tomasgard, A. *In Quest of ICT Value through Integrated Operations: Assessment of Organisational-Technological Capabilities*. In W. Abramowicz and D. Flejter (Eds.): BIS 2009 Workshop, LNBIP 37, Springer-Verlag, pp. 159-170
4. D. Strašunskas, S.L. Tomassen. *Empirical Insights on a Value of Ontology Quality in Ontology-Driven Web Search*. In R. Meersman and Z. Tari (Eds.): OTM 2008, Part II, LNCS 5332, Springer-Verlag, pp. 1318-1336.
5. J. Zoric, D. Strašunskas. *Techno-business assessment of services and service platforms. Quantitative, scenario-based analysis*. Proceedings of ICT-Mobile Summit 2008, Stockholm, Sweden.
6. D. Strašunskas, S.L. Tomassen. *Web Search Tailored Ontology Evaluation Framework*. Proceedings of Workshop on Emerging Trends of Web Technologies and Applications (WebETrends), Springer-Verlag, LNCS 4537, Huangshan, China, 2007.
7. D. Strašunskas, S.L. Tomassen. *Scenario-Driven Information Retrieval: Supporting Rule-Based Monitoring of Subsea Operations*. Information Technology and Control 36(1A), 2007, pp. 87-92.
8. W. Feng, J.A. Gulla, D. Strašunskas. *Comparative analysis of process and value perspectives for insight in business cooperation*. Proceedings of Workshop on Business / IT Alignment and Interoperability (BUSITAL'07). Trondheim, Norway, 2007, pp. 429-436.

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\* Complete list of publications available at <http://folk.ntnu.no/dstrasun/publications.php>

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9. D. Strasunskas, S. Hakkarainen. *Evaluation of a Conceptual Model-based Method for Discovery of Dependency Links*. Proceeding of the 14<sup>th</sup> Int'l. Conf. on Cooperative Information Systems (CoopIS'06), Springer-Verlag, LNCS 4275, pp. 625-642.
10. S. Hakkarainen, L. Hella, D. Strasunskas, S.M. Tuxen. *A Semantic Transformation Approach for ISO 15926*. Proc. of the ER 2006 Workshops (1<sup>st</sup> Int'l. workshop on Ontologizing Industrial Standards), November 2006, Tucson, Arizona, US. Springer-Verlag, LNCS 4231, 2006, pp. 281-290.
11. Y. Lin, D. Strasunskas, S. Hakkarainen, J. Krogstie, A. Sølvsberg. *Semantic Annotation Framework to Manage Semantic Heterogeneity of Process Models*. CAiSE'06, Springer-Verlag, LNCS 4001, pp. 433-446.
12. J.A. Gulla, S.L. Tomassen, D. Strasunskas. *Semantic Interoperability in the Norwegian Petroleum Industry*. Proceedings of the 5th International Conference on Information Systems Technology and its Applications (ISTA 2006), Klagenfurt, Austria, June 2006, Lecture Notes in Informatics (LNI), Vol. P-84, Kollen Druck+Verlag GmbH, pp. 81-94.
13. S. Hakkarainen, D. Strasunskas, L. Hella, S. Tuxen. *Choosing Appropriate Method Guidelines for Web-Ontology Building*. Proceedings of the 24<sup>th</sup> Conference on Conceptual Modelling (ER'05), Klagenfurt, Austria, 24-28 October, 2005, Springer-Verlag, LNCS 3716, pp. 270-287.
14. D. Strasunskas, S. Hakkarainen. *Process of Product Fragments Management in Distributed Development*. In R. Meersman, Z. Tari, D. Schmidt *et al.* (Eds.): Proceedings of the 11<sup>th</sup> Int'l. Conf. on Cooperative Information Systems (CoopIS'2003), Catania, Sicily, Italy, November 2003, Springer-Verlag, LNCS 2888, pp. 218-234.