

Curriculum Vitae  
for  
**Professor Dr Jon Atle Gulla**

**Full name** Jon Atle Gulla  
**Date of birth** 19th August 1965  
**Nationality** Norwegian  
**Home address** Teglbrennerveien 20B  
N-7013 Trondheim, Norway  
Mobile: +47 91 34 77 59

**Business address** Institute of Information and Computer Science  
Norwegian University of Science and Technology  
N-7034 Trondheim, Norway  
Phone: +47 73 59 18 47  
Fax: +47 73 59 44 66  
Email: [Jon.Atle.Gulla@idi.ntnu.no](mailto:Jon.Atle.Gulla@idi.ntnu.no)  
Homepage: [www.idi.ntnu.no/~jag](http://www.idi.ntnu.no/~jag)

## Profile

**Professor Dr. Jon Atle Gulla** is professor of Information Systems at the Norwegian University of Science and Technology (NTNU) in Trondheim, Norway since 2002. He received his MSc in 1988 and his PhD in 1993, both in Information Systems at the Norwegian Institute of Technology. In his PhD thesis he used linguistic theories to generate user-tailored explanations of conceptual models and their executions. Gulla also has a MSc in Linguistics from the University of Trondheim from 1995. In 2003 he completed a MSc of Management (Sloan fellow) at London Business School with a thesis on strategic modeling and simulation of fast growing software companies. Before accepting the professorship at NTNU he was the general manager of Elixir Sprachtechnologie, a Munich software company developing computational linguistics software for the search engine of Fast Search & Transfer. He was a senior consultant and project manager in Norsk Hydro in Brussels from 1997 to 2000, focusing on large-scale SAP projects. As a research scientist with GMD (later Fraunhofer) in Darmstadt from 1996 to 1997, he worked on dialog models for information retrieval.

Gulla has a multi-disciplinary research approach and works in close collaboration with industry. His research is centered around the following general themes:

- Semantic Web and Linked Open Data
- Ontology engineering
- Information retrieval
- Recommender systems
- Text analytics
- Sentiment analysis
- Big Data
- Business models and technology innovation

As part of his business activities professor Gulla has co-founded companies developing computational linguistics software, text mining tools, and business process reengineering tools for ERP-supported businesses. He has cooperated with Norwegian and international companies in projects on the introduction of semantic technologies in industry. Currently, he is the chairman of the board of one software company and is regularly giving talks to the business community.

As a professor at NTNU Professor Gulla has taken part in numerous national and international research projects, and he has more than 80 publications in international refereed journals and

conferences. He is responsible for courses on information retrieval, text mining, semantic web, project management, and information systems engineering. Central to all his lectures is the importance of models and semantics in future large-scale enterprise solutions. He serves as an expert evaluator for the European Commission and several European countries.

## Education

- **Master of Science of Management (MSc)** – Sloan fellow.  
London Business School. 2003.
- **Cand.philol (MSc)** in linguistics.  
University of Trondheim. 1995.
- **Doktor ingeniør (PhD)** in information systems.  
Thesis: “Explanation Generation in Information Systems Engineering”. Norwegian Institute of Technology. 1993.
- **Non-commissioned officer.**  
Officers Candidate School, The Norwegian Signal Corps. 1989.
- **Sivilingeniør (MSc)** in information systems.  
Norwegian Institute of Technology. 1988.

## Work Experience

- 2010 – 2012.       **Department Head**  
Norwegian University of Science and Technology, Trondheim, Norway.  
  
Leading Norway’s largest academic ICT department, the Department of Computer and Information Science at NTNU, with around 150 staff and 800 fulltime Bachelor and Master students.
- 2009-10, 2012-13 **Deputy Department Head**  
Norwegian University of Science and Technology, Trondheim, Norway.
- 2002 – date.       **Professor of Information Systems.**  
Norwegian University of Science and Technology, Trondheim, Norway.  
  
Managing projects on Enterprise Semantic Technologies. Research on semantic information retrieval and mining, business engineering and modeling, Semantic Web and ontologies, and economics of intelligent enterprise technologies. Responsible for courses and IT project management, information systems engineering, information retrieval & mining, and Semantic Web. Supervising PhD and MSc students.
- 2000 – 2002.       **Managing Director.**  
Elexir Sprach- und Informationstechnologie, Munich, Germany.  
Subsidiary of Fast Search & Transfer (FAST). Built up the German branch of Fast Search & Transfer.  
  
Responsible for all linguistic products in Fast Search & Transfer.
- 1999 – 2001       **Adjunct Associate Professor of Information Systems**  
Norwegian University of Science and Technology, Trondheim, Norway.

Responsible for course on information retrieval & mining. Supervising PhD and MSc students.

- 2000. **Project leader**  
Hydro Data (Hydro IS Partner), Oslo, Norway.

*Data warehouse standardization:*

Leading corporate project on standardization of data warehouse architectures and tools in Norsk Hydro.

- 1997-1999. **Senior consultant**  
Norsk Hydro (Hydro Data), Brussels, Belgium.

*Hydro Agri SAP Reengineering project:*

Mapping Agri's business to SAP functionality. Configuring Materials Management module in SAP. Coordinating training of all European sites in Materials Management and Plant Maintenance. Training local instructors in Materials Management. and Reporting.

*ASAP evaluation for Hydro Energy & Hydro Agri*

Leading project evaluating ASAP's suitability in Hydro Energy's implementation project and Hydro Agri's upgrade project.

*Hydro Agri upgrade project*

Responsible for Materials Management business flow analysis and test models for the upgrade of Hydro Agri's SAP installation from 3.0B to 4.5B.

- 1996. **Associate Professor of Information Systems**  
Norwegian University of Science and Technology, Trondheim, Norway.

Responsible for courses on information systems engineering and CSCW technology.

- 1995 – 1996. **Research scientist**  
German National Center for Information Technology, Darmstadt, Germany.

*MIRACLE project:*

Implementing dialog system for multimedia information retrieval system. Developing dialog model based on speech act theory.

## INDUSTRY

### Entrepreneurship

- 2004 **Businesscape**  
Co-founder of Businesscape in Trondheim. Businesscape develops software for analyzing SAP installations and assessing the quality of companies' SAP-supported business flows. 3 employees.
- 2001 **LingIT**  
Co-founder of LingIT in Trondheim. LingIT develops and sells computational linguistic products like spell-checkers and natural language interfaces. 6 employees.

### Board Experience

- Gulla og Mausset fiskelag (*member of the board, secretary, from 2005*)
- Businesscape/Fourspark (*member of the board, chairman, 2004-2011*)
- AidCom (*member of the board, 2007-2009*)
- LingIT (*member of the board, 2001 – 2004*)

## **Industrial cooperation**

- IBM, Oslo
- Siemens, Trondheim
- Adresseavisen. Trondheim
- cXense, Oslo
- Sincerial, Trondheim
- NSA, Oslo
- CognIT, Oslo
- Hjemmet Mortensen, Oslo
- Interance, Oslo
- AidCom, Trondheim
- Deutsche Telekom, Berlin
- TietoEnator, Stavanger
- Selvaag Bluethink, Oslo
- Computas, Oslo
- Telenor, Trondheim
- SAP Norway, Oslo
- Felleskjøpet, Trondheim
- Det Norske Veritas, Oslo
- Kompetansesenteret for IT i helse- og sosialsektoren AS (KITH), Trondheim
- Statoil ASA, Trondheim and Stavanger
- Swiss Re, Zurich
- Fast Search & Transfer AS, Oslo
- Yahoo, Trondheim
- Mtivity, London.
- Digital Networks, London
- HMS Systemer, Trondheim

## **ACADEMIA**

### **Research projects, centers and networks**

- **NXT Media:** 2011-2015  
Innovation network partly funded by the Research Council of Norway. Coordinated by Polaris with partners from the Norwegian and Swedish media sector and software industry.
- **LinkedDesign:** 2011-2014  
Linked Knowledge in Manufacturing, Engineering and Design for Next Generation Production. European research project funded under the 7<sup>th</sup> FWP in the area of Digital Factories: Manufacturing Design and Product Lifecycle Management (FoF-ICT-2011.7.4). Project reference: 284613. Total budget of 12.56 Million Euro (EU contribution of 8.06 Million Euro). LinkedDesign addresses an integrated, holistic view on data, persons and processes across the product lifecycle as a resource for competitive design of novel products and manufacturing processes. 13 European partners are involved in the project including NTNU and Aker Solutions. The project is coordinated by SAP. LinkedDesign is funding three PhD students and one post doc at NTNU.

- **Digital Oil (DOIL):** 2011-2015  
Funding two PhD students and two post docs under the VERDIKT program. Total budget of approx. NOK 10 Million. The objective is to develop and in-depth understanding of theoretical and actual risks related to sensor-based data management in the oil & gas sector. The project is a joint effort with Statoil and the Center for Integrated Operations in the Petroleum Industry at NTNU.
- **Ubiquitous service composition for all users (UbiCompForAll):** 2008-2012  
StorIKT project funded by the Research Council of Norway. Consortium led by Sintef. One PhD student and two post docs. Total budget of approx. 3.4M Euro.  
The objective is to provide technologies that enable end-users to compose service behaviors in ubiquitous service environments. The project will provide semantic graphical composition tools for end-users and service execution platforms.
- **Information Access Disruptions (iAD):** 2006-2014  
Center for research-based innovation (SFI) party financed by the Research Council of Norway and led by Fast Search & Transfer. Total budget of approx. NOK 240 million.  
The objective is to provide next generation schema agnostic indexing services by fusing structured, unstructured and multimedia content in precision, analytics and scale optimized information access services
- **SmartSearch:** 2008-2009  
Funded by Deutsche Telekom with a total budget of approx. 300K Euro. Gulla was part of the management team and coordinator for NTNU's deliverables.  
SmartSearch's objectives were to develop an ontology learning workbench for semi-structured movie-related documents and add semantic navigation to Deutsche Telekom's movie download service.
- **Records Management over Decades (LongRec):** 2007-2010.  
Funding 3 PhD students and one post doc under the VERDIKT program. Total budget of approx. 2.1M Euro. Consortium led by Det Norske Veritas.  
The primary objective of the LongRec project is the persistent, reliable and trustworthy long-term archival of digital information records with emphasis on availability and use of the information. Ontologies are used for harmonizing data as terminologies evolve over time.
- **Cooperative Mining of Independent Document Repositories (COMIDOR):** 2007-2011  
Funding two PhD students and two postdocs under the VERDIKT program. Total budget of approx. 1.1M Euro. Gulla is part of project management team and supervising one PhD student and one postdoc.  
COMIDOR's objective is to develop new approaches to complex text mining tasks that make use of documents that for various reasons cannot be merged before the analysis takes place.
- **Integrated Semantic Access in Situated Operations (IS\_A)** 2007-2011  
Funded by the Norwegian Research Council, Statoil, Selvaag Bluethink and Computas under the VERDIKT program with a total budget of NOK 3.8 million.  
The main objective is to enable organizations in the petroleum and construction business to run their knowledge-intensive geographically dispersed operations more efficiently by providing a semantic integrated framework for situated multi-modal knowledge access. The project investigates ways of extending Semantic Web technologies to model the users' entire mobile work context, including his work process and spatio-temporal coordinates.  
Jon Atle Gulla is the project leader and the supervisor of one PhD student and one post doc.
- **Database Support for Computational Science Applications (DASCOSA):** 2007-2010  
Funding one PhD student and one postdoc under the eVITA program of the Norwegian Research Council. Budget of approx. 400K Euro.  
This project uses the peer-to-peer paradigm to develop a Grid DBMS infrastructure for eScience solutions. Jon Atle Gulla is a member of the project management team.
- **Integrated Operations Center (IO center)** 2006-2014  
Full name: *Center for e-field and integrated operations for the petroleum industry*  
Center for research-based innovation financed by the Research Council of Norway, the petroleum industry, SINTEF; IFE, and NTNU with a total budget of NOK 40 million.

The objective is to develop new knowledge, methods, tools and educational programs to promote a leap in next generation integrated operations solutions for the upstream petroleum activities. This shall lead to improved overall efficiency, better safety and enhanced environmental standards. The IO center shall be a key contributor to the value creation on the Norwegian Continental Shelf and to the international operations of the industrial partners. The center has separate programs for drilling and well construction, reservoir management and production optimization, operations and maintenance, and integration across disciplines. Semantic web technologies and ontologies form the core technologies for integration and interoperability issues.

- **Integrated Information Platform (IIP) 2004-2007**

Full name: *Integrated Information Platform for Reservoir and Subsea Production Systems*

Funded by the Norwegian Research Council (PETROMAX program). Reference no. 163457/S30.

Partners: Det Norske Veritas, Statoil, Norsk Hydro, Cap Gemini, Poseidon, OLF, FMC

Technologies, National Oilwell Varco, OilCamp, POSC and NTNU. Budget: NOK 24 million.

IIP has the long-term objective of increasing petroleum production from subsea systems by making accessible high quality real-time information for decision support in operation centers onshore. It addresses the need for a common understanding of terms and structures in the subsea petroleum industry. The objective is to ease the integration of data and processes across phases and disciplines by providing a comprehensive unambiguous and well accepted terminology standard that lends itself to machine-processable interpretation and reasoning. This ontology standard is represented in OWL, and ontology-driven applications for intelligent search, rule-based notification and 3D visualization are also developed.

Jon Atle Gulla is coordinating the semantic web research carried out at NTNU and supervising one PhD student and one post doc.

- **Deep Thought 2002-2004**

Full name: *Hybrid Deep and Shallow Methods for Knowledge-intensive Information Extraction*

Funded under the 5<sup>th</sup> framework program for the European Commission. Contract reference IST-

2001-37836. Partners: Norwegian University of Science and Technology (NTNU), Saarland

University, Stanford University, Sussex University, Cambridge University, XtraMind

Technologies GmbH, CELI srl.

Deep Thought aimed to demonstrate the potential of deep semantic processing if combined with shallow methods in the field of Information Extraction. NTNU developed a grammar for Norwegian hike descriptions and implemented a prototype that analyzed hike descriptions semantically and allowed users to search for hikes based on simple descriptions.

## **Fellowships**

- The Norwegian Research Council for Science and the Humanities (NAVF). PhD fellowship 1990-1993.

## **Invited Research Stays**

- Oakland University, Department of Decision & Information Sciences, Rochester, USA. Invited by Professor Vijay Sugumaran. 2008, 7 months.
- Universidad Argentina de la Empresa, Buenos Aires, Argentina. Research stay at the Modeling and Simulation Laboratory. Invited by Professor Jorge Fantin. 2007. 3 months.
- Vrije Universiteit in Amsterdam, the Netherlands. Two research stays – of two weeks – at the Computer Science Department. Invited by Professor Reind van de Riet. November 1993 and January 1994.
- University of Texas at Arlington (UTA), USA. Research stay at the Computer Science Engineering Department. Invited by Professor David C. Kung. 1992. 6 months.

## **Academic Responsibilities and Leadership**

- Deputy head of department at the Department of Computer and Information Science, NTNU, 2012/2013.
- Head of department at the Department of Computer and Information Science, NTNU, 2010/2012.
- Deputy head of department at the Department of Computer and Information Science, NTNU, 2009/2010.
- Section leader of Section for Development and Use of IT Systems, NTNU, 2007
- Member of Integrated Operations center at NTNU
- Board member of NTNU's Language Technology program
- Member of program council for study program Engineering Science and Information and Communication Technology, NTNU

### **Organization of international conferences and workshops:**

- International News Recommendation and Analytics Workshop (NRA 2014). In Conjunction with the 22<sup>nd</sup> Conference on User Modeling, Adaptation and Personalization (UMAP 2014), Aalborg. General Chair.
- International News Recommender Systems Workshop and Challenge (NRS 2013). In Conjunction with the 7<sup>th</sup> ACM Recommender Systems Conference (RecSys 2013), Hong Kong. General Chair.
- Semantic Days 2009, Stavanger, Chair of Session 3 Ontology tools
- CAiSE 2007, Trondheim. Workshop Chair.
- Semantics & Search. IDI/UBIS seminar. Chair. 2006.
- NLDB'1996, Amsterdam. Member of organizing committee

### **Member of the program committees of international conferences and workshops:**

- EDOC'2013. The 17<sup>th</sup> IEEE International EDOC Conference. The Enterprise Computing Conference. Vancouver, Canada.
- NLDB'2013. The 18<sup>th</sup> International Conference on the Application of Natural Language for Information Systems (NLDB'2013). Salford, UK.
- VarIS'2013. International Workshop on Variability Support in Information Systems, Valencia, Spain.
- BIS'2013. 16<sup>th</sup> International Conference on Business Information Systems, Poznan, Poland.
- BIS'2012. 15<sup>th</sup> International Conference on Business Information Systems, Vilnius, Lithuania.
- ESWC'2012. 9<sup>th</sup> Extended Semantic Web Conference, Heraklion, Greece.
- NLDB'2012. 17<sup>th</sup> International Conference on the Application of Natural Language for Information Systems (NLDB'2012), Groningen, Netherlands.
- NLDB'2011. 16th International Conference on the Application of Natural Language for Information Systems (NLDB'2011). Alicante, Spain.
- BIS'2011. 14<sup>th</sup> International Conference on Business Information Systems, Poznan, Poland.
- NLDB'2010. 15th International Conference on the Application of Natural Language for Information Systems (NLDB'2010), Cardiff. Wales.
- EKAW'2010. 17th Conference on Knowledge Engineering and Knowledge Management, Lisbon, Portugal.
- BIS'2010. 13<sup>th</sup> International Conference on Business Information Systems, Berlin.
- OnAV'2010. 3<sup>rd</sup> International Workshop on Ontology Alignment and Visualization.
- NLDB'2009. 14th International Conference on the Application of Natural Language for Information Systems (NLDB'2006) in Saarbrücken, Germany.

- OnAV'2009. 2<sup>nd</sup> International Workshop on Ontology Alignment and Visualization, Fukuoka, Japan.
- ODBASE'2008. 7th International Conference on Ontologies, DataBases, and Applications of Semantics in Monterrey, Mexico.
- BPI'2008. 4<sup>th</sup> International Workshop on Business Process Intelligence in Milano.
- eCOMO'2008. 7<sup>th</sup> International Workshop on Conceptual Modeling Approaches for e-Business in Klagenfurt, Austria.
- OnAV'2008. International Workshop on Ontology Alignment and Visualization, Barcelona, Spain.
- BPI'2007. 3<sup>rd</sup> International Workshop on Business Process Intelligence in Brisbane, Australia.
- NLDB'2007. 12<sup>th</sup> International Conference on the Application of Natural Language for Information Systems (NLDB'2007) in Paris, France.
- CONFENIS'2006. The IFIP International Conference on Research and Practical Issues of Enterprise Information Systems in Vienna, Austria.
- NLDB'2006. 11th International Conference on the Application of Natural Language for Information Systems (NLDB'2006) in Klagenfurt, Austria.
- NLDB'2005. 10th International Conference on the Application of Natural Language for Information Systems (NLDB'2005) in Alicante, Spain.
- NLDB'2004. 9th International Conference on the Application of Natural Language for Information Systems (NLDB'2004) in Manchester, UK
- NLDB'2003. 8th International Conference on the Application of Natural Language for Information Systems (NLDB'2003) in Burg, Germany
- NLDB'2002. 7th International Conference on the Application of Natural Language for Information Systems (NLDB'2002) in Stockholm, Sweden.
- NLDB'2001. 6th International Conference on the Application of Natural Language for Information Systems (NLDB'2001) in Madrid, Spain.
- NLDB'2000. 5th International Conference on the Application of Natural Language for Information Systems (NLDB'2000) in Versailles, France.
- NLDB'1996. 2nd International Conference on the Application of Natural Language for Information Systems (NLDB'96) in Amsterdam., the Netherlands

### **Editorial board of journals:**

- Enterprise Information Systems (EIS)
- International Journal of Business Information Systems (JBIS)

### **Reviewer for international journals:**

- AI Magazine (Association for the Advancement of Artificial Intelligence)
- Knowledge-Based Systems (Elsevier)
- Information Processing Letters (Elsevier)
- IEEE Transactions on Systems, Man, and Cybernetics – Part B: Cybernetics
- IEEE Software
- Data & Knowledge Engineering (Elsevier)
- Information Sciences
- Information and Software Technology (Elsevier)

### **Evaluator for international research programs:**



- Research Council of Norway, BIA panel, 2013.
- Physical Sciences, The Netherlands Organisation for Scientific Research, 2012.
- European Commission, FP7-ICT-2009-Call 5, Belgium, 2009.
- Oslo University College, 2009.
- Semantic systems, Austria. 2007.
- Academy of Finland. 2007.
- FWF, Austria, 2006.

### **Opponent/administrator in PhD defenses:**

- Martin Thorsen Ranang. "*Open-Domain Word-Level Interpretation of Norwegian.*" Norwegian University of Science and Technology, 2009 (internal opponent and administrator).
- Rune Sætre. "*GeneTUC : Natural Language Understanding in Medical Text*". Norwegian University of Science and Technology, 2006 (internal opponent and administrator).
- Håvard Jørgensen. "*Interactive Process Models*". Norwegian University of Science and Technology, 2004 (internal opponent)

### **Supervision of PhD students:**

- Audun Vennesland. *Ontology mediation*. (secondary supervisor)
- Tomasz Kusmierczyk. *Data mining*. (secondary supervisor)
- Mahsa Mehrpoor. "*Context-driven information access*". (secondary supervisor)
- Elena Parmiggiani. "*Environmentally Monitoring in Integrated Operations*". Ongoing research (secondary supervisor)
- Lars Bungum. "*A contextual analysis of adaptive machine translation*". Ongoing research. (secondary supervisor)
- Gkorgkas, Orestis. "*Spatio-Temporal Keyword Search*. Ongoing research". (secondary supervisor)
- Nafiseh Shabib. "*Group recommendation*. Ongoing research". (secondary supervisor)
- Ali Norozi. "The Contextual Features in Schema-Agnostic Environment". 2014. (secondary supervisor)
- Tore Bruland. "*Building World Event Representations from Linguistic Representations*". 2013.
- Wei Wei. "*Mining Online Text Data for Sentiment and News Impact Analysis*". 2013.
- Robert Neumayer. "Semantic and Distributed Entity Search in the Web og Data". 2013. (secondary supervisor)
- Geir Solskinnsbakk. "*Contextual Semantic Search Navigation*". 2012.
- João Batista da Rocha Junior. "Efficient processing of Preference Queries in Distributed and Spatial Databases. 2012. (secondary supervisor)
- Natiya Kanhabua. "Time-aware Approaches to Information Retrieval." 2012. (secondary supervisor)
- Stein Tomassen. Title: "*Conceptual Ontology Enrichment for Web Information Retrieval*". 2011.
- Jon Espen Ingvaldsen. Title: "*Semantic Process Mining of Enterprise Transaction Data*". 2011.
- Hao Ding. Title: "*A Semantic Search Framework in Peer-to-Peer Digital Libraries*". 2006. (secondary supervisor)
- Xiaomeng Su. "*Semantic Enrichment for Ontology Mapping*". Norwegian University of Science and Technology, 2004. (secondary supervisor)
- Terje Brasethvik. "*Conceptual modelling for domain specific document description and retrieval*". Norwegian University of Science and Technology, 2004. (secondary supervisor)

### **Supervision of Master students (as professor):**

- John Eirik Bjørhovde Nilsen. “*Large-Scale User Click Analysis in News Recommendation*”. 2013.
- Kent Robin Haugen. “*Mobile News*”. 2013.
- Marius Krakeli & Martin Akre Midtsund. “*Enhanced Location API*”. 2013.
- Hanne Ousdal. “*Mobile Apps Mobility*”. 2013.
- Henrik Nordvik. “*Sentiment Analysis*”. 2011.
- Kristian Lund. “*Extracting Keyphrases from Individual News Articles*”. 2011
- Yuan Yuan. “*State of the Art for Software Ecosystems*”. 2010.
- Bowen Sun. “*Learning Hierarchical Relationships in Ontology Engineering*.” 2010.
- Terese Liadal. “*Representation of Business Processes with Semantic Rule Languages*.” 2009.
- Vincent Dedeban. “*Ontology-driven and rule-based system for management and pricing of family of product*”. 2007
- Gøran Sveia Kvarv. “*Ontology Learning – Suggesting Associations from Text*”. 2007
- Øyvind Arne Evensen. “*Semantic Relations in Yahoo! News Search*”. 2007
- Wei Feng, “*Value Modeling in the Agricultural Business Sector*”. 2007
- Geir Solskinnsbakk, “*Ontology-Driven Query Reformulation in Semantic Search*”. 2007
- Geir Øyvinn Grimnes, “*Ontologikonstruksjon for Statoil*”. 2006
- Hans Olaf Borch. “*On-Line Clustering of Web Search Results*”. 2006
- Tarjei Lægreid and Paul Christian Sandal, “*Financial news mining: Extracting useful information from continuous streams of text*”. 2006
- Jahn Arne Johnsen (secondary supervisor), 2006
- Helge Thomas Hellerud. “*Automatisk sammendragsgenerering av nyhetsartikler*” (Automatic Summarization of News Articles). 2005
- Svein Ola Løkse, 2005
- Stian Junge Strand. “*Tolkning av fotballreferater*” (Interpretation of Football Articles). 2005.
- Geir Karlsen, Erlend Solberg and Ole Øyvind Skaar. “*Multiple case studies of Norwegian hi-tech start-ups*”. 2004
- Jon Espen Ingvaldsen. “*ERP Projects and Data Mining*”. 2003.
- Ole Andreas Hegle. “*Business process management*”. 2003
- Lene Stray Gundersen, 2002

### Courses taught:

- TMM4230 Technology for Integrated Operations and the Semantic Web
- TDT4215 Web Intelligence
- [TDT4290 Customer-Driven Project](#)
- [TDT44 Semantic Web](#)
- DT8109 Business Systems
- [TDT4175 Information Systems](#)
- Computational Linguistics

### Panel Participation

- “Semantic Technologies and Their Applications.” *13<sup>th</sup> International Conference on Applications of Natural Language to Information Systems (NLDB 2008)*, 25 June, London. 2008. Other panelists: Philip Cimiano, David Grimshaw and Sophia Ananiadou.
- “The Knowledge Organisation of 2020.” *INFOSAM 2020 Conference*, 19 April 2004, Trondheim. Other panelists: Torbjørn Skramstad, Torbjørn Nordgård, and Leif Martin Hokstad.

## Patents

- Electronic research system. European patent application EP2287751. Submitted 08/17/2010 to the European Patent Office. Publication date: 02/23/2011. Search systems and information retrieval methods. Inventors: Jin Liu, Jianshen Zhou, Felix Burkhardt, Fred Runge and Jon Atle Gulla. Assignee: Deutsche Telekom.

## Invited talks

- “Anbefalingssystemer for personalisert brukeropplevelse” (Recommender systems for personalized user experience). *30th Betalingsformidling Conference*, The Norwegian Computer Society, Trondheim, 4-5 March, 2014.
- “NTNU and Recommender Systems”. *NxtMedia Scandinavian Seminar on recommendation technologies*, Trondheim, 8-9 October, 2013.
- “Informal vs. Formal Semantic Approaches to Document Content”. *ISO15926 and Semantic Technology Conference*, 8-9 September 2011, Sogndal.
- “Ontology Engineering in the Petroleum Business.” *Panel 3: Language Resources of Africa: a call for shared methodologies. Africa Network Norway (NAD)*, Trondheim, 2 October 2009.
- “Detecting Semantic Drift in Ontologies”. *ISO 15926 and Semantic Technologies*, Sogndal, 10 September 2009.
- “Tool-Supported Approaches to Ontology Engineering. *Semantic Days*, 22 April 2008.
- “Semantics in Search”. Vestlandsforskning. Sogndal, 27 August 2007.
- “Semantic Search Strategies. *OLF Conference on Integrated Operations*, Stavanger, 13 June 2007.
- “From Google Search to Semantic Exploration”. *Semantic Days*, 24 April 2007, Stavanger.
- “Bruk av semantiske teknologier for å støtte dynamisk integrerte operasjoner”. TietoEnator seminar: *Integrerte operasjoner – status og muligheter*. Stavanger, 9 November 2006.
- “Semantic Search Methods”. OLF seminar: *Common industry solutions for the oil and gas industry*. Stavanger, 28 September 2006.
- “Research at NTNU”. *IIP Workshop on Integrated Information Platform for reservoir and subsea production systems*, Stavanger, 24 August, 2006.
- ”Ontologies and Search”. *Semantic Days*, 27 April 2006, Stavanger:
- ”Semantic Web Research in Norway”. *Semantic Days*, 26 April 2006, Stavanger:
- “Semantic Web Applications – Capabilities and Challenges”. *Seamlessness in interfaces project seminar*, Oslo, December 2005.
- “Why Ontologies on the Web”, *Seminar on Industrial Terminology – Use of reference data*. Standard Norge and DNV, Lillehammer, March 2005.
- “Some thoughts about the Semantic Web initiative, OWL, and ontology-driven information management”, OLF seminar, Stavanger, 2004
- “The organization of human affairs/The creative human: Information Systems.” *INFOSAM 2020 Conference*, 19 April 2004, Trondheim.

## Presentations at conferences and workshops

- “Implicit User Profiling in News Recommender Systems”. *The 10<sup>th</sup> International Conference on Web Information Systems and Technologies (WEBIST 2014)*, Barcelona, 3-5 April 2014.
- “Semantic Drift in Ontologies”. *The 6<sup>th</sup> International Conference on Web Information Systems and Technologies (WEBIST 2010)*, Valencia, 7-10 April 2010.
- “Issues in Ontology Creation for Web Search.” *The 7<sup>th</sup> Workshop on e-Business (Web 2008). International Conference on Information Systems*, Paris, December 2008

- “An Ontology Creation Methodology: A Phased Approach.” *2<sup>nd</sup> International Workshop on Ontology Dynamics (IWOD 2008), International Conference on the Semantic Web*, Karlsruhe, October 2008.
- ”A Hybrid Approach to Ontology Relationship Learning.” *13<sup>th</sup> International Conference on Applications of Natural Language to Information Systems (NLDB 2008)*, 25 June, London. 2008.
- ”Using Association Rules to Learn Concept Relationships in Ontologies.” *10<sup>th</sup> International Conference on Enterprise Information Systems (ICEIS 2008)*, Barcelona, 14 June 2008.
- ”Interoperability in the Petroleum Industry.” *10<sup>th</sup> International Conference on Enterprise Information Systems (ICEIS 2008)*, Barcelona, 14 June 2008.
- “Financial News Mining: Monitoring Continuous Streams of Text”. *2006 IEEE/WIC/ACM International Conference on Web Intelligence (WI 2006)*, Hong Kong, December 2006.
- ”Unsupervised Keyphrase Extraction for Search Ontologies”. *11<sup>th</sup> International Conference on Applications of Natural Language to Information Systems (NLDB’2006)*, Klagenfurt, June 2006.
- “Semantic Interoperability in the Norwegian Petroleum Industry. *5<sup>th</sup> International Conference on Information Systems Technology and its Applications (ISTA’06)*, Klagenfurt, June 2006.
- ”A Text Mining Approach to Integrating Business Process Models and Governing Documents”. OnTheMove Federated Conferences and Workshops. *Workshop on Interorganizational Systems and Interoperability of Enterprise Software and Applications (MIOS+INTEROP)*, Agia Napa, October 2005.
- ”Understanding Requirements in Enterprise Systems Projects.” *12<sup>th</sup> IEEE International Requirements Engineering Conference (RE’04)*, Kyoto, August 2004
- ”A Flexible Workbench for Document Analysis and Text Mining.” *9<sup>th</sup> International Conference on Applications of Natural Language to Information Systems (NLDB’04)*, Manchester, June 2004.
- “Linguistics in Large-Scale Web Search.” *7<sup>th</sup> International Conference on Applications of Natural Language to Information Systems (NLDB’2002)*, Stockholm, June 2002.
- “A Conceptual Modeling Approach to Semantic Document Retrieval.” *14<sup>th</sup> International Conference on Advanced Information Systems Engineering (CaiSE’2002)*, Toronto, May 2002.
- “Model-Driven Business Management – the Linguistic Perspective.” *6<sup>th</sup> International Workshop on Applications of Natural Language to Information Systems (NLDB’2001)*, Madrid, June 2001.
- "On the Challenges of Business Modeling in Large-Scale Reengineering Projects." *Forth International Conference on Requirements Engineering (ICRE’2000)*, Schaumburg, Illinois, June 2000
- "*Implementing SAP R/3 in a Multi-Cultural Organization*". First International Workshop on Enterprise Management and Resource Planning Systems (EMRPS’99), Venice, November 1999.
- "Retrieving Conceptual Models on the Basis of Word Semantics", *Second International Workshop on Applications of Natural Language to Information Systems (NLDB’96)*, Amsterdam, 1996.
- "Verification of Conceptual Models based on Linguistic Knowledge". *First International Workshop on Applications of Natural Language to Data Bases (NLDB’95)*, Versailles, 1995
- "Combining Functional Grammar and Rhetorical Structure Theory for discourse representation." *Conference on Functional Grammar*, York, 1994.
- ”Executing, Viewing and Explaining Conceptual Models”. *First International Conference on Requirement Engineering (ICRE-94)*, Colorado Springs, USA, 1994. IEEE.
- “An Integrated Environment for Validating Conceptual Models”. *Sixth International Workshop on Computer-Aided Software Engineering (CASE’93)*, Singapore, July 1993.

### **In the press:**

- “Endelig kan søkemotoren forstå deg.” Kristian Mendoza, 27. juni 2011, Teknofil.no. [http://www.teknofil.no/artikler/endelig\\_kan\\_sokemotoren\\_forstaa\\_deg/99573](http://www.teknofil.no/artikler/endelig_kan_sokemotoren_forstaa_deg/99573)
- ”Søk som skjønner deg.” Geir Aas, 26. juni 2011. Forskning.no. <http://www.forskning.no/artikler/2011/juni/291919>

- “Søk som skjønner deg.” Geir Aas, 15 mai 2011. <http://www.forskningsradet.no/servlet/Satellite?c=Nyhet&pagename=verdikt%2FHovedsidemal&cid=1253966372725&p=1226993814948>
- “Towards a Semantic Information Platform for Subsea Petroleum Processes”. ERCIM News, No. 66. ([http://www.ercim.org/publication/Ercim\\_News/enw66/gulla.html](http://www.ercim.org/publication/Ercim_News/enw66/gulla.html)).
- ”NTNU-forskere arbeider med å forbedre søk og presentasjon av data”. The Norwegian Oil Industry Association (OLF), 30 September 2005. (<http://www.olf.no/io/kunnskapsind/>).
- “Hva om vi ikke har en felles forståelse av hva vi legger i begrepene?”. Knut Lindelien. Standard Norge. March 2005. (<http://www.standard.no/imaker.exe?id=9680>)
- “Unge gründere med brukerfokus”. Forskning.no, 2 September 2004. (<http://forskning.no/naeringsliv/Artikler/2004/september/1094111121.79>).
- ”Unge gründere med brukerfokus”. Teknisk Ukeblad, 26 August 2004. (<http://www.tu.no/nyheter/arbeidsliv/article29221.ece>).
- Universitetsavisa, 1993

## CULTURE

### Languages

- Norwegian, mother tongue
- English, fluent
- German, working knowledge
- French, Spanish, basic knowledge

### Skiing competitions

- Toblach-Cortina, Italy 2014(25 km, time: 1:38:19,1, 353 of 650 in Men overall)
- Flyktingerennet 2013 (44 km, time: 2:44:36.0, 79 of 361 in HMS)
- Jizerská 2013 (50 km, time: 4:07:29, 1722 of 4318)
- Flyktingerennet 2012 (28 km, time: 1:56:26.4, 154 of 433 in HMS)
- Marka Rundt 2012 (40 km, time: 3:05:09, 54 of 74 in Men 41-45)
- Flyktingerennet 2011 (44 km, time: 3:07:47, 195 of 484 in HMS)
- Flyktingerennet 2009 (44 km, time: 3:10:50, 200 of 444 in HMS)
- Rensfjellrennet 2005 (56 km, time: 4:51:35, 86 of 116 in M35-39)
- Flyktingerennet 2004 (44 km, time: 3:29:32, 220 of 352 in HDM)
- Birkebeinerrennet 2001 (54 km, time: 5:08:16, 740 of 965 in Men 35-39)

### Gulla Gaard

Owner of a traditional summer hotel in Surnadal. The hotel is located by the river Surna, one of the finest salmon rivers in Norway. Includes a large English garden, a ducks pond, a tennis court and buildings of the local architecture. The hotel closed down in 1964 and is now under complete restoration.

Sources about Gulla Gaard:

- Bævre, Ann Iren. «Portvinskongens laksegård.» Adresseavisen, 29. juni 2012. <http://www.adressa.no/incoming/article3232139.ece>.
- *Driva*. ”Ministerbesøk til Vårsøghelga.” 17. juni 2011. s. 4.
- Lillegård, Magne. ”Sandeman tilbake på Gulla Gaard”. *Driva – Vårsøghelga*, 8. juni, 2011, s. 10-11.
- Solli, Tor Helge. ”Gjenreiser gammel storhet ved elva.” *Tidens krav*, 21. mai 2011, s. 8-9.

- Harangen, Morten. "Hekta på sjøørret." *Fluefiske 2010*, pp. 94-98, 2010.
- Lillegård, Magne. "Gjenskarar portvinskongen sitt rike." *Driva*, 20. november 2009, pp. 12-14.
- Gulla, Jon Atle. "Portvin og laks på Gulla Gaard." ISBN 978-82-303-1223-0. 2009.
- Harangen, Morten. "Port and Salmon." *Flyfishers Journal*, Vol. 89, No. 326, Winter 2008, pp. 18-21.
- Harangen, Morten. "Mannen som vil skape Gulla av gråstein." *Fluefiske 2008*, pp. 55-59, 2008.
- Aarvåg, Steinar J. "Ærverdige Gulla Gaard". *Driva*, 17. august 2007, s. 14-15.
- Bryn, Thor (red.). *Norske fiskeeventyr: Med engelske sportsfiskere gjennom Norge i gamle dager*. Cappelen. 2004.
- Haranger, Morten. "En laksegårds fall". *Landliv*, nr. 5, pp. 20-27, 2003.
- Svensli, Rolf Ivar. "Bare tennisbanen igjen...". *Driva*, 30. juli 1993.
- Holten, Ola J. "I lakselordenes fotspor: Portvinkongen på Gulla Gård". *Sportsfisker'n*, pp. 10-16. Årbok 1986.
- *Adresseavisen*. "26,5 kilo rekord". 19. juli 1984.
- Meringdal, Odd. "Engelsktida i Surna – del 2". *Driva*, 13. januar 1976, s. 4.
- Nordvik, Ola. "Storfisk og storfiskarar". *Du mitt Nordmøre 1972*. s. 19-29.
- *Tidens krav*. "Laksefiske i gamle dager". 25. juni 1962.
- *Tidens krav*. "Ryfylking innførte skisporten i Sveits". 28. februar 1962.
- Headlam, Maurice. *A Holiday Fisherman*. Robert Hale. 1949.
- *Norwegian Anglings*. Nr 4309, p. 95. Lumley & Dowell, Lumley House. 1912.
- *Surnadølen*. "Opmars til Gulla". Nr II, 19. september 1899.
- Chapman, Abel. *Wild Norway: with chapters on Spitsbergen, Denmark, etc.* London: Edward Arnold. 1897.
- Sandeman, Fraser. *Angling Travels in Norway*. Chapman & Hall, Ld. 1895.