

# Ahmet SOYLU

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## Overview

### *Personal*

Born on 1984, married, Turkish citizen and speaks Turkish, English and Norwegian.

### *Scholarly metrics*

Impact: citations 1630, h-index 24, and i10-index 35 according to [Google Scholar](#).

Publications: 24 journal articles, 56 conference/workshop papers, 3 book chapters, 3 popular scientific articles, 1 technical report, and 2 proceedings.

Popular Dissemination: 3 international invited talks and 3 popular scientific articles.

### *Projects*

Participated: 9 EU projects, 7 national projects, 7 industrial projects, 3 PhD/postdoc grants, and 2 organisation/event support.

Lead role: TheyBuyForYou (EU), SkyTrack (national), Gemini Big Data Centre (national), Optique (EU), iCamp (EU), LEFIS (EU), Law&ICT (EU), and Document Mining&Search (industrial).

Funding raised: SkyTrack (national), Gemini Big Data Centre (national), MAPLE (national), Byte (EU), LEFIS (EU), Law&ICT (EU), and Document Mining&Search (industrial).

Open software developed: 6 tools developed within the context of different projects.

### *Teaching/supervision*

Courses taught: 2 PhD, 2 master, and 7 bachelor level courses.

Courses responsible: 1 course coordinator.

Supervision: 1 PostDoc, 4 PhD, 12 master, and 2 bachelor students.

Formal qualification: 200 hours through 6 modules (seminars, summer schools etc.).

### *Service*

Scientific: 1 promotion committee member, 1 technical task force member, 8 editorial board member, 7 conference chair/organiser, 7 international project reviewer, 32 journal reviewer, and 41 conference reviewer/PC member roles.

Educational: 1 PhD evaluation committee chair, 5 external/internal sensor roles, and 2 educational affairs committee member (main and deputy), 1 Master program evaluation panel member roles.

Administrative: 2 hiring committee chair, 1 interview committee member, 1 search committee member, and 1 funding panel member roles.

### Network

Academic: more than 110 international co-authors – see [dblp](#) and [Scopus](#).

Industry/public: Equinor, Siemens, Ahus, Aker Solutions, Aibel, Prediktor, Backe, DNV GL, etc.

### Research interests

Data Management and Integration, Knowledge Representation, Data Science, Web Technologies, Semantic Web, Digital Transformation, and Big Data.

## Employment

### Current

2020–today	<b>Professor</b> , Department of Computer Science, <b>OsloMet – Oslo Metropolitan University</b> , Oslo, Norway
2021–today	<b>Associate Professor</b> , Department of Informatics, <b>University of Oslo – UiO</b> , Oslo, Norway
2014–today	<b>Associate Professor</b> , Department of Computer Science, <b>Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway

### Past

2018–2020	<b>Senior Research Scientist</b> , Smart Data Group, <b>SINTEF Digital</b> , Oslo, Norway
2017–2018	<b>Senior Engineer</b> , Information Risk Management Group, <b>DNV GL - Digital Solutions</b> , Høvik, Norway
2012–2015	<b>Postdoctoral Research Fellow</b> , Department of Informatics, <b>University of Oslo – UiO</b> , Oslo, Norway
05-10/2012	<b>Postdoctoral Research Fellow</b> , Department of Informatics, <b>KU Leuven</b> , Leuven, Belgium
2008–2012	<b>PhD Research Fellow</b> , Department of Informatics, <b>KU Leuven</b> , Leuven, Belgium
2006–2008	<b>Team leader and Research Assistant</b> , Department of Computer Science, <b>Isik University</b> , Istanbul, Turkey

## Mobility

05-08/2013	<b>Visiting Researcher</b> , <b>University of Oxford</b> , Oxford, the UK Collaborated on visual query formulation research within an EU project.
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2008–2012	<b>Visiting Researcher, The Open University</b> , Milton Keynes, the UK Short research visits in the context of my PhD work.
2008–2012	<b>Visiting Researcher, Vienna University of Business and Economics</b> , Vienna, Austria Short research visits in the context of my PhD work.

## Major Institutional Roles (selected)

2020–today	<b>Deputy member</b> , Educational Affairs Committee (Undervisningsutvalget), Department of Computer Science, <b>Norwegian University of Science and Technology – NTNU</b> , Norway
2020–2021	<b>Co-lead</b> , Technical Task Force on Standardisation, <b>Big Data Value Association (BDVA)</b>
2018–2020	<b>Technical/scientific manager</b> , TheyBuyForYou project – Enabling procurement data value chains for economic development, demand management, competitive markets and vendor intelligence, <b>EU H2020</b>
2018–2020	<b>Member</b> , Educational Affairs Committee (Undervisningsutvalget), Department of Computer Science, <b>Norwegian University of Science and Technology – NTNU</b> , Norway
2016–2019	<b>Co-lead</b> , Gemini Center on Big Data, <b>University of Oslo – UiO</b> , <b>Norwegian University of Science and Technology – NTNU</b> , and <b>SINTEF Digital</b> , Norway

## Education

2008–2012	<b>Ph.D. in Computer Science, KU Leuven</b> , Leuven, Belgium Thesis: “Exploiting metadata, ontologies and semantics to design/enhance new end-user experiences for adaptive pervasive computing environments” Supervisors: Prof. dr. Patrick De Causmaecker, Prof. dr. ir. Erik Duval, and Prof. dr. Piet Desmet
2006–2008	<b>M.Sc. in Computer Engineering, Isik University</b> , Istanbul, Turkey Thesis: “A learning object harvesting model and a sample application” Supervisor: Prof. dr. Selahattin Kuru
2002–2006	<b>B.Sc. in Computer Engineering, Isik University</b> , Istanbul, Turkey

## Other Competences

### *Pedagogical*

2020 Spring	<b>Inclusive education, Norwegian University of Science and Technology – NTNU</b> , Trondheim, Norway Selective module on inclusive education – 20 hours
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2020 Spring	<b>Involving students in research, Norwegian University of Science and Technology – NTNU, Trondheim, Norway</b> Selective module on creating meaning by involving students in research – 20 hours
2019 Fall	<b>Research-based teaching, Norwegian University of Science and Technology – NTNU, Gjøvik, Norway</b> Linking research and teaching by Prof. dr. Mick Healey – 5 hours
2018 Spring	<b>PhD supervisor seminar, Norwegian University of Science and Technology – NTNU, Trondheim, Norway</b> PhD supervision training – 15 hours
2016 Spring	<b>Teaching and Learning in Higher Education, University of Oslo – UiO, Oslo, Norway</b> Basic pedagogical competence – 100 hours

### *Interdisciplinary*

2009 Summ.	<b>Joint Summer School on Technology Enhanced Learning, Terchova, Slovakia</b> European Association of Technology Enhanced Learning (EATEL), One week of intensive programme – 40 hours
2007 Summ.	<b>Legal Aspects of Information Society, Istanbul, Turkey</b> Two weeks of intensive programme
2016–2020	<b>Software Carpentry for Scientist and Engineers, University of Oslo – UiO, Oslo, Norway</b> Attended workshops on an occasional basis

### *Management*

2018 Fall	<b>Project Management, SINTEF Digital, Trondheim, Norway</b> Two and half days course
2017 Spring	<b>Project Acquisition and Management, DNV GL - Digital Solutions, Høvik, Norway</b> Day course

### *Language*

2016 Spring	<b>Intermediate Norwegian Level 3, University of Oslo – UiO, Oslo, Norway</b> 20 study points/credits
2015 Fall	<b>Intermediate Norwegian Level 2, University of Oslo – UiO, Oslo, Norway</b> 15 study points/credits
2015 Spring	<b>Elementary Norwegian Level 1, University of Oslo – UiO, Oslo, Norway</b> 15 study points/credits

## Projects

### *Academic international*

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| 2018–2020 | <p><b>TheyBuyForYou</b> – Enabling procurement data value chains for economic development, demand management, competitive markets and vendor intelligence</p> <p>Programme: EU H2020, 3.2M EUR – <a href="https://theybuyforyou.eu">https://theybuyforyou.eu</a></p> <p>Role: <b>Technical/scientific manager and WP leader</b> – managing technical and scientific progress of the project and leading a work package on data integration and ontology development.</p> |
| 2018–2019 | <p><b>euBusinessGraph</b> – Enabling the European Business Graph for Innovative Data Products and Services</p> <p>Programme: EU H2020, 3.6M EUR – <a href="http://eubusinessgraph.eu">http://eubusinessgraph.eu</a></p> <p>Role: <b>Researcher</b> – contributing research on data integration and ontology development.</p>   |
| 2014–2017 | <p><b>Byte</b> – The Big data roadmap and cross-disciplinary community for addressing social Externalities</p> <p>Programme: EU FP7, 2.8M EUR – <a href="http://http://byte-project.eu">http://http://byte-project.eu</a></p> <p>Role: <b>Researcher</b> – contributed to <b>proposal writing</b> and research on industrial use cases.</p>  |
| 2012–2017 | <p><b>Optique</b> – Scalable end-user access to Big Data</p> <p>Programme: EU FP7, 13.8M EUR – <a href="http://www.optique-project.eu">http://www.optique-project.eu</a></p> <p>Role: <b>Lead researcher</b> – managed the work package activities on visual query formulation interface and developed an open source visual query system.</p>   |
| 2009–2012 | <p><b>ROLE</b> – Responsive Open Learning Environments</p> <p>Programme: EU FP7, 8.5M EUR – <a href="http://www.role-project.eu">http://www.role-project.eu</a></p> <p>Role: <b>Researcher</b> – contributed to research on widget-based mashups.</p>  |
| 2006–2008 | <p><b>iCamp</b> – Innovative, inclusive, interactive &amp; intercultural learning campus</p> <p>Programme: EU FP6, 3.4M EUR – <a href="http://www.icamp.eu">http://www.icamp.eu</a></p> <p>Role: <b>Local project manager</b> – managed the local project team and contributed to research on networked e-learning tools.</p>  |
| 2007–2008 | <p><b>Law&amp;ICT</b> – LAW&amp;ICT Shared Virtual Campus</p> <p>Programme: Erasmus LLP, 370K EUR</p> <p>Role: <b>Local project manager</b> – led the local project team, initiated and contributed to <b>proposal writing</b>, and contributed to project activities.</p>   |
| 2006–2008 | <p><b>LEFIS</b> – Legal Framework for Information Society</p> <p>Programme: Socrates Thematic Network – <a href="http://www.lefis.org">http://www.lefis.org</a></p> <p>Role: <b>Local project manager</b> – led the local project team, initiated and contributed to <b>proposal writing</b>, and contributed to project activities.</p>   |
| 2006–2008 | <p><b>TREE</b> – Teaching and research in Engineering in Europe</p>  |

Programme: EU Thematic Network – <http://www3.unifi.it/tree>

Role: **Local project manager** – led the local project team and contributed to research on problem based learning.

### *Academic national*

- 2020–2020 **SkyTrack** – Cloud-based Operation Management Systems (with industry)  
 Programme: The Research Council of Norway, IPN (Innovation Project for the Industrial Sector), 26M NOK (2.6M EUR), Norway  
 Role: **Co-PI and WP-leader** – project management and research on data modelling and integration.
- 2018–2020 **MDS** – Maritime Data Spaces (with industry)  
 Programme: The Research Council of Norway, IPN (Innovation Project for the Industrial Sector), 12M NOK (1.3M EUR), Norway  
 Role: **Local project manager** – project management and research on data modelling and integration.
- 2018–2021 **DigiBuild** – Digitalising the construction process (with industry)  
 Programme: The Research Council of Norway, BIA (User-driven Research based Innovation), 43M NOK (4.5M EUR), Norway  
 Role: **Local project manager** – project management and research on data modelling and integration.
- 2016–2019 **Gemini Centre on Big Data** – A collaboration and networking centre established between Norwegian University of Science and Technology – NTNU, University of Oslo – UiO, and SINTEF  
 Programme: Gemini-samarbeidet – <http://www.sintef.no/gemini-samarbeidet/>  
 Role: **Principal investigator** – **proposal writing**, and sitting on the leader team.
- 2013–2015 **Semicolon II** – Collaboration in Public Sector  
 Programme: The Research Council of Norway, VERDIKT, Norway – <http://www.semicolon.no>  
 Role: **Researcher** – contributed to research on search interfaces.
- 2009–2011 **MAPLE** – Mobile, Adaptive and Personalised Learning Experience  
 Programme: iMinds – ICON, Belgium  
 Role: **Investigator** – contributed to the **proposal writing**.
- 2008–2012 **IOF** – Harnessing collective intelligence in e-learning environments  
 Programme: Industrial Research Fund (Industrieel Onderzoeksfonds), Belgium  
 Role: **Researcher** – contributed to research as a part of my PhD studies.

### *Industrial*

03-04/2018	<p><b>DREAM</b> – Emerging digital technologies within TEN (Technology Excellence network)  Owner: DNV GL  Role: <b>Contributor</b> – ontology-based requirements handling and verification.</p>
02-04/2018	<p><b>Learning from Experiences</b> – Cost effective and safe operations through enhanced learnings from earlier failures  Owner: Joint industrial project (JIP)  Role: <b>Contributor</b> – design and development of an ontology-based requirements handling and verification tool in maritime domain.</p>
2017–2018	<p><b>NORSOK - ZTI</b> – ontology-based requirements handling  Owner: Standard Norge, Aibel, and DNV GL  Role: <b>Contributor</b> – design and implementation of an ontology-based explorer for requirement management based on NORSOK Z standard.</p>
2017–2018	<p><b>OREDA</b> – Offshore and onshore reliability data  Owner: Joint industrial project (JIP)  Role: <b>Contributor</b> – consultancy on reliability data collection, integration, and management.</p>
2017–2018	<p><b>Document Mining&amp;Search</b>  Owner: DNV GL  Role: <b>Project leader</b> – initiated and contributed to the tender process and undertaken the design and implementation of a cloud-based semantic search and mining tool for unstructured data.</p>
01-04/2017	<p><b>PUSH project</b> – engineering assistant  Owner: Aker Solutions  Role: <b>Contributor</b> – design and implementation of an ontology-based user interface specification and configuration tool.</p>
2015–2016	<p><b>Ahus project</b> – Patient record management system  Owner: Southern and Eastern Norway Regional Health Authority  Role: <b>Contributor</b> – design and implementation of ontology-based patient information system.</p>

### *PhD/Postdoc fellowship grants*

2020–today	<p><b>Industrial PhD</b> – Funding for a PhD student for three years.  Programme: Industrial PhD funding from The Research Council of Norway and Prediktor  Role: <b>PI</b> – supervisor.</p>
2020–today	<p><b>Integrated PhD</b> – Funding for an integrated PhD student for five years.  Programme: Internal funding from Norwegian University of Science and Technology – NTNU</p>

	Role: <b>PI</b> – supervisor.
2020–today	<b>Postdoc</b> – Funding for a postdoc fellow for one year. Programme: European Research Consortium for Informatics and Mathematics (ERCIM) Role: <b>PI</b> – supervisor.

### Organisation/event support

2020–2020	<b>DeclarativeAI 2020</b> – Rules, Reasoning, Decisions, and Explanations (joint events) Programme: IKTPlus support from The Research Council of Norway, 100K NOK, co-organised by SINTEF, University of Oslo – UiO, and Norwegian University of Science and Technology – <a href="https://2020.declarativeai.net/">https://2020.declarativeai.net/</a> Role: <b>PI</b> – conference organisation.
2020–2020	<b>DeclarativeAI 2020</b> – Rules, Reasoning, Decisions, and Explanations (joint events) Programme: Norwegian University of Science and Technology support, 50K NOK Role: <b>PI</b> – conference organisation.

### Collaboration Efforts/Agreements

2020–today	<b>Bosch AI Center and Norwegian University of Science and Technology</b> – NTNU, Collaboration on research and supervision. Role: Conducting joint research and supervision activities.
2017–2018	<b>DNV GL and Norwegian University of Science and Technology</b> – NTNU, Collaboration on research and teaching.
2018–today	<b>SINTEF and Norwegian University of Science and Technology</b> – NTNU, Collaboration on research and teaching. Role: Undertaking a joint position and conducting joint project acquisition and master thesis supervision activities.
2017–2018	<b>DNV GL and Norwegian University of Science and Technology</b> – NTNU, Collaboration on research and teaching. Role: Undertaken a joint position; received DNV GL funding for teaching one master level course; conducted joint supervision and project acquisition activities.
2017–2020	<b>University of Oxford and Norwegian University of Science and Technology</b> – NTNU, Collaboration on research. Role: Undertaking joint research and project acquisition activities.
2014–today	<b>University of Oslo – UiO and Norwegian University of Science and Technology</b> – NTNU, Collaboration on research and teaching.



	Role: Undertaken a joint position; received University of Oslo – UiO funding for research activities on Optique project; conducting joint supervision and project acquisition activities.
2012–2015	<b>University of Oxford and University of Oslo – UiO</b> , Collaboration on research. Role: Undertaken joint research activities and had short and long research stays.
2008–2012	<b>The Open University and KU Leuven</b> , Collaboration on research. Role: Undertaken joint research activities and had short research stays.
2008–2012	<b>Vienna University of Business and Economics and KU Leuven</b> , Collaboration on research. Role: Undertaken joint research activities and had short research stays.

## Teaching

2021-today	<b>PhD Seminar in Computer and Information Science, Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway PhD level, <b>Lecturer</b> , 1 semester
2021-today	<b>Globalisation of Technology, OsloMet – Oslo Metropolitan University</b> , Oslo, Norway Master level, <b>Lecturer</b> , 1 semester
2020 Spring	<b>WWW Technology, Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway Bachelor level, <b>Guest lecturer</b> , 1 semester
2020 Spring	<b>Front-end Development, Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway Bachelor level, <b>Guest lecturer</b> , 1 semester
2019–2020	<b>Programming for Web II, Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway Bachelor level, <b>Course responsible</b> , 2 semesters
2016 Spring	<b>Special compendium in HCI, University of Oslo – UiO</b> , Oslo, Norway PhD level, <b>Supervisor</b>
2016–today	<b>Introduction to Research on Web Technologies, Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway Master level, <b>Lecturer</b> , 5 semesters
2015–2018	<b>Programming for Web II, Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway Bachelor level, <b>Lecturer</b> , 3 semesters
2014–2020	<b>Web Project III, Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway

	Bachelor level, <b>Lecturer</b> , 7 semesters
2013–2015	<b>Database Systems, University of Oslo – UiO</b> , Oslo, Norway Bachelor level, <b>Guest Lecturer</b> , 2 semesters
2009–2011	<b>Data Structures &amp; Algorithms, KU Leuven</b> , Kortrijk, Belgium Bachelor level, <b>Teaching assistant</b> , 3 semesters
2008 Fall	<b>Software Engineering, Isik University</b> , Istanbul, Turkey Bachelor level, <b>Teaching assistant</b> , 1 semester

## Supervision

### Postdoc

2019–2021	Multi-criteria decision analysis (MCDA) in the maritime domain Fellow: Bekir Sahin (ERCIM fellowship) <b>Supervisor, Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway
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### PhD

2021–today	Flexible Deployment of Big Data Pipelines on the Cloud/Edge/Fog Continuum Student: Nikolay Nikolov <b>Co-supervisor, University of Oslo – UiO</b> , Oslo, Norway
2020–today	Specification of Big Data Workflows on the Computing Continuum Student: Akif Kuddus Khan <b>Supervisor, Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway
2020–today	Model-driven Engineering of Operations Management Systems using Standardised Plant and Process Models Student: Magnus Bakken <b>Supervisor, Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway
2016–2020	Adaptive Query Extension Suggestions for Ontology-Based Visual Query Systems Student: Vidar Klungre <b>Co-supervisor</b> with Prof. dr. Martin Giese, <b>University of Oslo – UiO</b> , Oslo, Norway

### Master

2021–today	Machine learning pipelines (short thesis) Student: 1 student <b>Supervisor, OsloMet – Oslo Metropolitan University, Oslo, Norway</b>
2020–today	Various topics on Knowledge Graphs (long theses) Student: 3 students <b>Co-supervisor</b> with supervisor dr. Dumitru Roman, <b>University of Oslo – UiO, Oslo, Norway</b>
2020–today	Various topics on Data Analysis (short theses) Student: 2 students <b>Supervisor, Norwegian University of Science and Technology – NTNU, Gjøvik, Norway</b>
2020–2020	Big Data Workflows Using Software Containers Student: Yared Dejene Dessalk <b>Co-supervisor</b> with supervisor dr. Dumitru Roman and Prof. dr. Mihhail Matskin, <b>KTH Royal Institute of Technology, Stockholm, Sweden</b>
2020–2020	Motivate people for more physical activity indoors with Web Technologies (short thesis) Student: Lu Jiang Zhou <b>Co-supervisor</b> with supervisor Yuanhua Liu, <b>Norwegian University of Science and Technology – NTNU, Gjøvik, Norway</b>
2019–2019	An Approach for EasySpecification of Interactive Data Visualisations (short thesis) Student: Magdalena Kowalczyk <b>Supervisor, Norwegian University of Science and Technology – NTNU, Gjøvik, Norway</b>
2018–2019	Predictive Data Transformation Suggestions in Grafterizer (long thesis) Student: Saliha Sajid <b>Co-supervisor</b> with supervisor dr. Dumitru Roman, <b>University of Oslo – UiO, Oslo, Norway</b>
2016–2017	Ontology-Based SPARQL Extension Ranker (long thesis) Student: Magnus Arneberg Nilsen <b>Supervisor</b> with co-supervisor Prof. dr. Martin Giese, <b>University of Oslo – UiO, Oslo, Norway</b>
2014–2015	Ontology-based Collaborative Visual Query Formulation (long thesis) Student: Yasar Mumtaz <b>Supervisor</b> with co-supervisor Prof. dr. Martin Giese, <b>University of Oslo – UiO, Oslo, Norway</b>

*Bachelor*

2016 Spring	An Online Payment and Invoicing System Students: Fredrik Andre and Kim Erik <b>Supervisor, Norwegian University of Science and Technology – NTNU, Gjøvik, Norway</b>
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## Professional Activities

### *Educational*

2020–today	<b>Deputy member</b> , Educational Affairs Committee, (Undervisningsutvalget), <b>Norwegian University of Science and Technology – NTNU</b> , Trondheim, Norway Department of Computer Science
2020–2020	<b>Panel member</b> , Evaluation committee for Master of Applied Computer Science (MACS), <b>Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway Department of Computer Science
2020–2020	<b>External examiner</b> , Bachelor theses, <b>OsloMet – Oslo Metropolitan University</b> , Oslo, Norway Department of Computer Science
2020–2020	<b>Internal examiner</b> , PhD course (Specialisation on Web Technology), <b>Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway Department of Computer Science
2020–2020	<b>Internal examiner</b> , Master course (Research Planning), <b>Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway Department of Computer Science
2020–2020	<b>Internal examiner</b> , Master theses, <b>Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway Department of Computer Science
2018–2020	<b>Member</b> , Educational Affairs Committee, (Undervisningsutvalget), <b>Norwegian University of Science and Technology – NTNU</b> , Trondheim, Norway Department of Computer Science
2018–2018	<b>External examiner</b> , Master thesis, <b>University of Oslo – UiO</b> , Oslo, Norway Department of Informatics
2017–2017	<b>Chair and member</b> , PhD thesis assessment committee at <b>Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway PhD Candidate Zenun Kastrati

*Scientific*

2020–today	<b>Co-lead</b> , Technical Task Force on Standardisation, <b>Big Data Value Association (BDVA)</b>
2019–2019	<b>Member</b> , Technical review panel for Advanced Manufacturing and Engineering (AME) funding initiative, <b>Agency for Science, Technology and Research (A*STAR)</b> , Singapore
2018–today	<b>Technical coordinator</b> , TheyBuyForYou project – Enabling procurement data value chains for economic development, demand management, competitive markets and vendor intelligence, <b>EU H2020</b>
2016–2019	<b>Co-lead</b> , Gemini Center on Big Data of <b>University of Oslo – UiO</b> , <b>Norwegian University of Science and Technology – NTNU</b> , and <b>SINTEF</b> , Norway

*Administrative*

2020–2020	<b>Reviewer</b> , Promotion committee, <b>Arab American University-Jenin</b> , Jenin, Palestine Associate Professor position
2020–2020	<b>Member</b> , Search committee, <b>Norwegian University of Science and Technology</b> , Gjøvik, Norway Associate Professor position
2018–2018	<b>Member</b> , Advisory and interview committee for hiring, <b>Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway Associate Professor position
2018–2018	<b>Chair and member</b> , External hiring committee, <b>Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway Associate Professor position
2018–2018	<b>Chair and member</b> , Internal hiring committee, <b>Norwegian University of Science and Technology – NTNU</b> , Gjøvik, Norway Associate Professor position

*Journal board*

2020–today	<b>Associate editor</b> , Data Technologies and Applications journal
2020–2020	<b>Guest editor</b> , Sensors Special issue on Sensors with Machine Learning Methods for Assisted Systems - Recent Advances and Future Trends
2019–today	<b>Editorial board member</b> , Information journal
2018–today	<b>Editorial board member</b> , Sensors journal
2018–today	<b>Editorial board member</b> , Scientific Programming journal

2017–today	<b>Editorial board member</b> , Journal of Web Semantics (JWS)
2017–2018	<b>Guest editor</b> , Multimodal Technologies and Interaction Special issue on Interactive Web
2016–today	<b>Editorial board member</b> , International Journal of Privacy and Health Information Management

### *Conference chair/organiser*

2021–2021	<b>Co-chair</b> , 15th International Rule Challenge at RuleML+RR 2021 – The 5th International Joint Conference on Rules and Reasoning
2020–2020	<b>General chair</b> , the 4th International Joint Conference on Rules and Reasoning (RuleML+RR 2020) co-organised by SINTEF, University of Oslo – UiO, and Norwegian University of Science and Technology – NTNU
2020–2020	<b>Co-organiser</b> , DeclarativeAI 2020 – Rules, Decisions, and Reasoning (three co-located events) co-organised by SINTEF, University of Oslo – UiO, and Norwegian University of Science and Technology – NTNU  The 4th International Joint Conference on Rules and Reasoning (RuleML+RR 2020); DecisionCamp 2020;  The 16th Reasoning Web Summer School (RW 2020); and,  RuleML+RR 2020 Satellite Events
2019–2019	<b>Co-chair</b> , 13th International Rule Challenge at RuleML+RR 2019 – The 3rd International Joint Conference on Rules and Reasoning
2018–2018	<b>Vice chair</b> , ODBASE 2018 – The 17th International Conference on Ontologies, DataBases, and Applications of Semantics
2018–2018	<b>Track chair</b> , Innovate-Data 2018 (Data Visualisation track) – The 4th International Conference on Big Data Innovations and Applications

### *Project reviewer*

2020–2020	<b>Reviewer</b> , Latvian Council of Science, Latvia
2019–2019	<b>Reviewer</b> , Agency for Science, Technology and Research (A*STAR), Singapore
2019–2019	<b>Reviewer</b> , Austrian Science Fund (FWF), Austria
2018–2018	<b>Reviewer</b> , Netherlands Organisation for Scientific Research (NWO), Netherlands
2018–2018	<b>Reviewer</b> , Leibniz Association, Germany
2017–2017	<b>Reviewer</b> , Netherlands Organisation for Scientific Research (NWO), Netherlands
2014–2014	<b>Reviewer</b> , National Science Centre, Poland

*Journal reviewer*

[1] Knowledge-based Systems; [2] Future Internet; [3] IEEE Access; [4] Publications; [5] Scientometrics; [6] Remote Sensing; [7] New Generation Computing; [8] Journal of Systems and Software; [9] Computer Standards & Interfaces; [10] Journal of Web Semantics (JWS); [11] Journal of Web Engineering (JWE); [12] Journal of Ambient Intelligence and Smart Environments (JAISE); [13] International Journal of Privacy and Health Information Management (IJPHIM); [14] International Journal on Semantic Web and Information Systems (IJSWIS); [15] International Journal of Geo-Information [16] Production & Manufacturing Research [17] Journal of Internet Services and Applications (JISA); [18] Entropy; [19] Computers; [20] Information; [21] Sustainability; [22] Journal of Experimental and Theoretical Artificial Intelligence (JETAI); [23] International Journal of Big Data Intelligence (IJBDI); [24] Integrated Computer-Aided Engineering (ICAE); [25] Ecological Informatics; [26] SENSORS; [27] Computational and Mathematical Methods in Medicine; [28] JZUS-C; [29] Biomedical Engineering Research (BER); [30] International Journal of Metadata, Ontologies and Semantics (IJMSO); [31] International Journal of Technology Enhanced Learning (IJTEL); [32] Journal of Mobile Multimedia (JMM).

*Conference reviewer/ PC member*

[1] International Workshop on Visualisation and Interaction for Ontologies and Linked Data (VOILA @ISWC 2021); [2] The 3rd Workshop on Semantic Explainability (SemEx @ ISWC 2021); [3] The 19th International Semantic Web Conference (ISWC 2020); [4] The 15th International Symposium on Visual Computing (ISVC 2020); [5] The 14th International Conference on Metadata and Semantics Research (MTSR 2020); [6] 1st International Conference on Artificial Intelligence & Modern Assistive Technology (ICAEMAT 2020); [7] 12th International Conference on Computational Intelligence and Communication Networks (CICN 2020); [8] The 19th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE 2020); [9] The 2nd International Workshop on Knowledge Graph Building (KGB @ ISWC 2020); [10] The 2nd Workshop on Semantic Explainability (SemEx @ ISWC 2020); [11] The 14th International Rule Challenge (@ RuleML+RR 2020) [12] International Workshop on Visualisation and Interaction for Ontologies and Linked Data (VOILA @ISWC 2020); [13] 1st Conference on Internet of Things and Embedded Intelligence (CITEI 2020); [14] The 3rd International Conference on Computer Applications and Information Security (ICCAIS 2020); [15] The 16th International Conference on Intelligent Environments (IE2020); [16] The 6th International Management Information Systems Conference (IMISC 2019); [17] The 3rd International Joint Conference on Rules and Reasoning (RuleML + RR 2019); [18] The 18th International Semantic Web Conference (ISWC 2019); [19] The 13th International Conference on Metadata and Semantics Research (MTSR 2019); [20] The 18th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE 2019); [21] The 1st International Workshop on Knowledge Graph Building (KGB @ ESWC 2019); [22] The 1st Workshop on Semantic Explainability (SemEx 2019 @ ISWC 2019); [23] The 13th International Conference on Advances in Semantic Processing (SEMAPRO 2019); [24] International Workshop on Visualisation and Interaction for Ontologies and Linked Data (VOILA @ESWC 2019); [25] The 12th International Conference on Metadata and Semantics Research (MTSR 2018); [26] The European Conference on Service-Oriented and Cloud Computing (ESOCC 2018); [27] Semantic Web Technologies in Mobile and Pervasive Environments (SEMPER @ESWC 2018); [28] International Workshop on Visualisation and Interaction for Ontologies and Linked Data (VOILA @ESWC 2018); [29] The 12th International Conference on Advances in Semantic Processing (SEMAPRO 2018); [30] International Workshop on Visualisation and Interaction for Ontologies and Linked Data (VOILA @ESWC 2017); [31] Semantic Web Technologies in Mobile and Pervasive Environments (SEMPER @ESWC 2016); [32] International Web Rule Symposium (RuleML 2015); [33] International Web Rule Symposium Challenge (RuleML 2015 Challenge); [34] The 8th Nordic Conference on Human-Computer Interaction (NordCHI 2014); [35] International Web Rule Symposium (RuleML 2014); [36] International Web Rule Symposium Challenge (RuleML 2014 Challenge); [37] The 8th International Conference on Advances in Semantic Processing (SEMAPRO 2014); [38] International

Web Rule Symposium Challenge (RuleML 2013 Challenge); [39] The 18th International Conference on Software, Telecommunications and Computer Networks (SoftCom 2010); [40] Interdisciplinary Research on Technology, Education and Communication (ITEC 2010); [41] The 6th International Conference on Ubiquitous Intelligence and Computing (UIC 2009).

## Talks

- |            |  |
|------------|--|
| 19.05.2020 | <p>Title: <b>Involvement of Research Projects and Standardisation Activities</b></p> <p>Place: Standards and Innovation: Data and AI Standards Generating Value for SMEs, <b>Big Data Value Association (BDVA)</b>, Webinar</p>        |
| 09.09.2019 | <p>Title: <b>Data-driven Innovation and Knowledge Graphs</b></p> <p>Place: Advanced Manufacturing and Engineering (AME) Programmatic Funding Initiative, <b>Agency for Science, Technology and Research (A*STAR)</b>, Singapore</p>    |
| 07.11.2018 | <p>Title: <b>euBusinessGraph – Leveraging the European Big Data Initiatives</b></p> <p>Place: Digital Innovation Hubs Working Group Meeting on Big Data and Artificial Intelligence, <b>European Commission</b>, Brussels, Belgium</p> |

## Open Software

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|-----------|--|
| 2018–2020 | <p><b>OCDS ontology</b>, developed within TheyBuyForYou project</p> <p>Purpose: An ontology for public procurement.</p> <p><a href="https://github.com/TBFY/ocds-ontology">https://github.com/TBFY/ocds-ontology</a></p>   |
| 2013–2018 | <p><b>OptiqueVQS</b>, developed within Optique project</p> <p>Purpose: Ontology-based visual query formulation.</p> <p><a href="https://gitlab.com/ernesto.jimenez.ruiz/OptiqueVQS">https://gitlab.com/ernesto.jimenez.ruiz/OptiqueVQS</a></p>   |
| 2013–2018 | <p><b>Ontology services toolkit</b>, developed within Optique project</p> <p>Purpose: Ontology projection for navigation.</p> <p><a href="https://gitlab.com/ernesto.jimenez.ruiz/ontology-services-toolkit">https://gitlab.com/ernesto.jimenez.ruiz/ontology-services-toolkit</a></p> |
| 2013–2018 | <p><b>PepeSearch</b>, developed within Semicolon II project</p> <p>Purpose: A SPARQL query interface.</p> <p><a href="https://github.com/guiveg/pepesearch">https://github.com/guiveg/pepesearch</a></p>   |
| 2008–2012 | <p><b>Semantic Web Component</b> developed within my PhD work</p> <p>Purpose: Linked data browser for end users (not maintained).</p>  |
| 2008–2012 | <p><b>WIPLE</b>, developed within my PhD work</p> <p>Purpose: Widget-based personal learning environment (not maintained).</p>   |
| 2007–2008 | <p><b>Feedback plugin</b>, developed within iCamp project</p>  |



Purpose: A social networking tool for e-learning (not maintained).

## Honours, Awards, & Fellowships

### Awards

2020–2020	<b>EU funded innovation</b> , The knowledge graph for Open Procurement Data In Europe, European Commission
2018–2018	<b>Outstanding reviewer</b> , Computer Standards & Interfaces (Elsevier)
2017–2017	<b>Outstanding reviewer</b> , Journal of Web Semantics (Elsevier)
2015–2015	<b>Best demonstration</b> , the 14th International Semantic Web Conference (ISWC'15)
2016–2016	<b>Second place by IMT3891 Web Project III students</b> , the hack4no idea competition

### Honours

2008–2008	<b>Graduation with distinction</b> (M.Sc.), Isik University, Istanbul, Turkey
2006–2008	<b>High honour</b> (M.Sc.), Isik University, Istanbul, Turkey
2006–2006	<b>Graduation with distinction</b> (B.Sc.), Isik University, Istanbul, Turkey
2002–2006	<b>High Honour</b> (B.Sc.), Isik University, Istanbul, Turkey

### Fellowships

2013–2013	<b>Visiting researcher fellowship</b> , University of Oxford, Oxford, the UK
2012–2015	<b>Postdoctoral Research Fellowship</b> , University of Oslo – UiO, Oslo, Norway
2008–2012	<b>Ph.D. Fellowship</b> , KU Leuven, Leuven, Belgium IOF Industrieel Onderzoeksfonds (Industrial Research Fund)
2006–2008	<b>M.Sc. Fellowship</b> , Turkish Scientific and Technological Research Council (TUBITAK), Ankara, Turkey
2006–2008	<b>M.Sc. Fellowship</b> , Isik University, Istanbul, Turkey
2002–2006	<b>High Achievement Scholarship</b> (B.Sc.), Isik University, Istanbul, Turkey

## Publications

### Journal Articles

- [1] Bekir Sahin, Anis Yazidi, Dumitru Roman, and Ahmet Soylu. "Ontology-based Fault Tree Analysis Algorithms in a Fuzzy Environment for Autonomous Ships". In: *IEEE Access* (2021). DOI: [10.1109/ACCESS.2021.3061929](https://doi.org/10.1109/ACCESS.2021.3061929).

- [2] Maren Parnas Gulnes, Ahmet Soylu, and Dumitru Roman. "Using a Graph-based Approach for Representing, Integrating, and Analysing Neuroscience Data: The Case of the Murine Basal Ganglia". In: *Data Technologies and Applications* (under review) (2020).
- [3] Renate Kratochvil, Mariya Khanamiryan, Ahmet Soylu, and Ragnhild Kvålshaugen. "Do not take them for granted – Organizational context factors that stimulate digital mindsets to unfold". In: *Information Systems* (under review) (2020).
- [4] Dumitru Roman, Vladimir Alexiev, Javier Paniagua, Brian Elvesæter, Bjørn Marius Von Zernichow, Ahmet Soylu, Boyan Simeonov, and Chris Taggart. "The euBusinessGraph Ontology: a Lightweight Ontology for Harmonizing Basic Company Information". In: *Semantic Web* (in press) (2020).
- [5] Dumitru Roman, Neal Reeves, Esteban Gonzalez, Irene Celino, Shady Abd El Kader, Philip Turk, Ahmet Soylu, Oscar Corcho, Raquel Cedazo, Gloria Re Calegari, Damiano Scandolari, and Elena Simperl. "An Analysis of Pollution Citizen Science Projects from the Perspective of Data Science and Open Science". In: *Data Technologies and Applications* (accepted) (2020).
- [6] Bekir Sahin and Ahmet Soylu. "Intuitionistic fuzzy analytical network process models for maritime supply chain". In: *Applied Soft Computing* 96 (2020). DOI: [10.1016/j.asoc.2020.106614](https://doi.org/10.1016/j.asoc.2020.106614).
- [7] Bekir Sahin and Ahmet Soylu. "Multi-layer, multi-segment iterative optimization for maritime supply chain operations in a dynamic fuzzy environment". In: *IEEE Access* (2020). DOI: [10.1109/ACCESS.2020.3014968](https://doi.org/10.1109/ACCESS.2020.3014968).
- [8] Bekir Shain, Tsz Leung Yip, Po-Hsing Tseng, Mehmet Kabak, and Ahmet Soylu. "An Application of a Fuzzy TOPSIS Multi-Criteria Decision Analysis Algorithm for Dry Bulk Carrier Selection". In: *Information* 11.5 (2020), 251:1–251:16. DOI: [10.3390/info11050251](https://doi.org/10.3390/info11050251).
- [9] Ahmet Soylu, Oscar Corcho, Brian Elvesæter, Carlos Badenes-Olmedo, Francisco Yedro Martinez, Tom Blount, Matej Kovacic, Matej Posinkovic, Ian Makgill, Chris Taggart, Elena Simperl, Till C. Lech, and Dumitru Roman. "TheyBuyForYou Platform and Knowledge Graph: Expanding Horizons in Public Procurement with Open Linked Data". In: *Semantic Web* (under review) (2020).
- [10] Vidar Klungre, Ahmet Soylu, Ernesto Jimenez Ruiz, Evgeny Kharlamov, and Martin Giese. "Query Extension Suggestions for Visual Query Systems through Ontology Projection and Indexing". In: *New Generation Computing* 37.4 (2019), pp. 361–392. DOI: [10.1007/s00354-019-00071-1](https://doi.org/10.1007/s00354-019-00071-1).
- [11] Ahmet Soylu, Evgeny Kharlamov, Dimitry Zheleznyakov, Ernesto Jimenez Ruiz, Martin Giese, Martin G. Skjæveland, Dag Hovland, Rudolf Schlatte, Sebastian Brandt, Hallstein Lie, and Ian Horrocks. "OptiqueVQS: a Visual Query System over Ontologies for Industry". In: *Semantic Web* 9.5 (2018), pp. 627–660. DOI: [10.3233/SW-180293](https://doi.org/10.3233/SW-180293).
- [12] Evgeny Kharlamov, Dimitris Bilidas, Dag Hovland, Ernesto Jimenez-Ruiz, Davide Lanti, Hallstein Lie, Martin Rezk, Martin G. Skjæveland, Ahmet Soylu, Guohui Xiao, Dmitriy Zheleznyakov, Martin Giese, Yannis Ioannidis, Yannis Kotidis, Manolis Koubarakis, and Arild Waaler. "Ontology Based Data Access in Statoil". In: *Journal of Web Semantics* 44 (2017), pp. 3–36. DOI: [10.1016/j.websem.2017.05.005](https://doi.org/10.1016/j.websem.2017.05.005).
- [13] Evgeny Kharlamov, Theofilos Mailis, Gulnar Mehdi, Christian Neuenstadt, Ozgur Ozcep, Mikhail Roshchin, Nina Solomakhina, Ahmet Soylu, Christoforos Svingos, Sebastian Brandt, Martin Giese, Yannis Ioannidis, Steffen Lamparter, Ralf Moller, Yannis Kotidis, and Arild Waaler. "Semantic Access to Streaming and Static Data at Siemens". In: *Journal of Web Semantics* 44 (2017), pp. 54–74. DOI: [10.1016/j.websem.2017.02.001](https://doi.org/10.1016/j.websem.2017.02.001).
- [14] Ahmet Soylu, Martin Giese, Rudolf Schlatte, Ernesto Jimenez-Ruiz, Evgeny Kharlamov, Ozgur Ozcep, Christian Neuenstadt, and Sebastian Brandt. "Querying Industrial Stream-Temporal Data: an Ontology-based Visual Approach". In: *Journal of Ambient Intelligence and Smart Environments* 9.1 (2017), pp. 77–95. DOI: [10.3233/AIS-160415](https://doi.org/10.3233/AIS-160415).

- [15] Ahmet Soylu, Martin Giese, Ernesto Jimenez-Ruiz, Guillermo Vega-Gorgojo, and Ian Horrocks. "Experiencing OptiqueVQS – a multi-paradigm and ontology-based visual query system for end-users". In: *Universal Access in the Information Society* 15.1 (2016), pp. 129–152. DOI: [10.1007/s10209-015-0404-5](https://doi.org/10.1007/s10209-015-0404-5).
- [16] Ahmet Soylu, Martin Giese, Evgeny Kharlamov, Ernesto Jimenez-Ruiz, Dmitriy Zheleznyakov, and Ian Horrocks. "Ontology-based End-user Visual Query Formulation: Why, what, who, how, and which?" In: *Universal Access in the Information Society* 16.2 (2016), pp. 435–467. DOI: [10.1007/s10209-016-0465-0](https://doi.org/10.1007/s10209-016-0465-0).
- [17] Guillermo Vega-Gorgojo, Martin Giese, Simen Heggestøyl, Ahmet Soylu, and Arild Waaler. "Querying Semantic Datasets with PepeSearch". In: *PLoS ONE* 11.3 (2016). DOI: [10.1371/journal.pone.0151573](https://doi.org/10.1371/journal.pone.0151573).
- [18] Guillermo Vega-Gorgojo, Laure Slaughter, Martin Giese, Simen Heggestøyl, Ahmet Soylu, and Arild Waaler. "Visual query interfaces for semantic datasets: an evaluation study". In: *Journal of Web Semantics* 39 (2016), pp. 81–96. DOI: [10.1016/j.websem.2016.01.002](https://doi.org/10.1016/j.websem.2016.01.002).
- [19] Martin Giese, Ahmet Soylu, Guillermo Vega-Gorgojo, Arild Waaler, Peter Haase, Ernesto Jimenez-Ruiz, Davide Lanti, Martin Rezk, Guohui Xiao, Ozgur Ozcep, and Riccardo Rosati. "Optique – Zooming In on Big Data Access". In: *IEEE Computer Magazine* 48.3 (2015), pp. 60–67. DOI: [10.1109/MC.2015.82](https://doi.org/10.1109/MC.2015.82).
- [20] Ahmet Soylu, Felix Modritscher, and Patrick De Causmaecker. "Ubiquitous web navigation through harvesting embedded semantic data: A mobile scenario". In: *Integrated Computer-Aided Engineering* 19.1 (2012), pp. 93–109. DOI: [10.3233/ICA-2012-0393](https://doi.org/10.3233/ICA-2012-0393).
- [21] Ahmet Soylu, Felix Moedritscher, Fridolin Wild, Patrick De Causmaecker, and Piet Desmet. "Mashups by orchestration and widget-based personal environments: Key challenges, solution strategies, and an application". In: *Program: Electronic Library and Information Systems* 46.4 (2012), pp. 383–428. DOI: [10.1108/00330331211276486](https://doi.org/10.1108/00330331211276486).
- [22] Ahmet Soylu, Patrick De Causmaecker, Davy Preuveneers, Yolande Berbers, and Piet Desmet. "Formal modelling, knowledge representation and reasoning for design and development of user-centric pervasive software: a meta-review". In: *International Journal of Metadata, Semantics and Ontologies* 6.2 (2011), pp. 96–125. DOI: [10.1504/IJMSO.2011.046595](https://doi.org/10.1504/IJMSO.2011.046595).
- [23] Ahmet Soylu, Patrick De Causmaecker, and Fridolin Wild. "Ubiquitous Web for Ubiquitous Computing Environments: The Role of Embedded Semantics". In: *Journal of Mobile Multimedia* 6.1 (2010), pp. 26–48.
- [24] Ahmet Soylu, Patrick De Causmaecker, and Piet Desmet. "Context and Adaptivity in Pervasive Computing Environments: Links with Software Engineering and Ontological Engineering". In: *Journal of Software* 4.9 (2009), pp. 992–1013. DOI: [10.4304/jsw.4.9.992-1013](https://doi.org/10.4304/jsw.4.9.992-1013).

### *Books, Book Chapters and Booklets*

- [25] Martin Giese, Diego Calvanese, Peter Haase, Ian Horrocks, Yannis Ioannidis, Herald Kllapi, Manolis Koubarakis, Maurizio Lenzerini, Ralf Möller, Özgür Özcep, Mariano Rodriguez-Muro, Riccardo Rosati, Rudolf Schlatte, Michael Schmidt, Ahmet Soylu, and Arild Waaler. "Scalable End-user Access to Big Data". In: *Big Data Computing*. Ed. by Rajendra Akerkar. CRC Press, 2013, pp. 205–244. DOI: [10.1201/b16014-9](https://doi.org/10.1201/b16014-9).
- [26] Anna Danielewska-Tulecka and Ahmet Soylu. *Blogs and Feedback*. Poland, 2009. URL: <http://www.icamp.eu/wp-content/uploads/2009/01/icamp-handbook-web.pdf>.
- [27] Fridolin Wild, Steinn E. Sigurðarson, Stefan Sobernig, Ahmet Soylu, Vahur Rebas, Dariusz Gorka, Anna Danielewska-Tulecka, and Antonio Tapiador. *An Interoperability Infrastructure for Distributed Feed Networks*. facultas.wuv. Vienna, Austria, 2007.

### Popular Scientific Articles

- [28] Dumitru Roman and Ahmet Soylu. *Enabling the European Business Knowledge Graph for Innovative Data-Driven Products and Services*. ERCIM News (121), pp. 31–32. 2020. URL: <https://ercim-news.ercim.eu/en121/r-i/enabling-the-european-business-knowledge-graph-for-innovative-data-driven-products-and-services>.
- [29] Bekir Sahin and Ahmet Soylu. *An Automatic Anomaly Detection System (AADS) for Fully Autonomous Ships*. ERCIM News (122), pp. 51–52. 2020. URL: <https://ercim-news.ercim.eu/en122/special/an-automatic-anomaly-detection-system-aads-for-fully-autonomous-ships>.
- [30] Ahmet Soylu and Till Christopher Lech. *Browse, Visualise, Analyse EU Procurement Data*. ERCIM News (120), pp. 45–46. 2020. URL: <https://ercim-news.ercim.eu/en120/r-i/browse-visualise-analyse-eu-procurement-data>.

### Conference and Workshop Papers

- [31] Yared Dejene Dessalk, Nikolay Nikolov, Mihhail Matskin, Ahmet Soylu, and Dumitru Roman. “Scalable Execution of Big Data Workflows using Software Containers”. In: *Proceedings of the 12th International Conference on Management of Emergent Digital EcoSystems (MEDES 2020)*. Abu Dhabi, UAE: ACM, 2020, pp. 76–83. DOI: [10.1145/3415958.3433082](https://doi.org/10.1145/3415958.3433082).
- [32] Dumitru Roman, Vladimir Alexiev, Javier Paniagua, Brian Elvesæter, Bjørn Marius Von Zernichow, Ahmet Soylu, Boyan Simeonov, and Chris Taggart. “A Bird’s-Eye View of euBusinessGraph: A Business Knowledge Graph for Company Data”. In: *Proceedings of the ISWC 2020 Demos and Industry Tracks: From Novel Ideas to Industrial Practice*. Vol. 2721. CEUR Workshop Proceedings. Virtual Event, Greece: CEUR-WS.org, 2020. URL: <http://ceur-ws.org/Vol-2721/paper493.pdf>.
- [33] Bekir Sahin, Zia Uddin, and Ahmet Soylu. “Towards Optimal Ship Navigation Using Image Processing”. In: *Proceedings of the 15th International Symposium on Visual Computing (ISVC 2020)*. Vol. 12509. LNCS. Virtual Event, USA: Springer, 2020, pp. 135–147. DOI: [10.1007/978-3-030-64556-4\\_11](https://doi.org/10.1007/978-3-030-64556-4_11).
- [34] Simen Dyve Samuelsen, Nikolay Nikolov, Ahmet Soylu, and Dumitru Roman. “An Approach for Representing and Storing RDF Data in Multi-model Databases”. In: *Proceedings of 14th International Conference on Metadata and Semantics Research (MTSR 2020)*. CCIS. Madrid, Spain: Springer, 2020.
- [35] Ahmet Soylu, Oscar Corcho, Brian Elvesæter, Carlos Badenes-Olmedo, Francisco Yedro Martinez, Matej Kovacic, Matej Posinkovic, Ian Makgill, Chris Taggart, Elena Simperl, Till C. Lech, and Dumitru Roman. “Enhancing Public Procurement in the European Union through Constructing and Exploiting an Integrated Knowledge Graph”. In: *Proceedings of 19th International Semantic Web Conference (ISWC 2020)*. Vol. 12507. LNCS. Athens, Greece: Springer, 2020, pp. 430–446. DOI: [10.1007/978-3-030-62466-8\\_27](https://doi.org/10.1007/978-3-030-62466-8_27).
- [36] Ahmet Soylu, Oscar Corcho, Brian Elvesæter, Carlos Badenes-Olmedo, Francisco Yedro Martinez, Matej Kovacic, Matej Posinkovic, Ian Makgill, Chris Taggart, Elena Simperl, Till C. Lech, and Dumitru Roman. “Integrating and Analysing Public Procurement Data through a Knowledge Graph: A Demonstration in a Nutshell”. In: *Proceedings of the ISWC 2020 Demos and Industry Tracks: From Novel Ideas to Industrial Practice*. Vol. 2721. CEUR Workshop Proceedings. Virtual Event, Greece: CEUR-WS.org, 2020. URL: <http://ceur-ws.org/Vol-2721/paper492.pdf>.
- [37] Baifan Zhou, Yulia Svetashova, Tim Pychynski, Ildar Baimuratov, Ahmet Soylu, and Evgeny Kharlamov. “SemFE: Facilitating ML Pipeline Development with Semantics”. In: *Proceedings of the 29th ACM International Conference on Information and Knowledge Management (CIKM 2020)*, Virtual Event, Ireland: ACM, 2020. DOI: [10.1145/3340531.3417436](https://doi.org/10.1145/3340531.3417436).

- [38] Shady Abd El Kader, Nikolay Nikolov, Bjørn Marius Von Zernichow, Vincenzo Cutrona, Matteo Palmonari, Brian Elvesæter, Ahmet Soylu, and Dumitru Roman. "Modeling and Publishing French Business Register (Sirene) Data as Linked Data Using the euBusinessGraph Ontology". In: *Joint Proceedings of the International Workshops on Sensors and Actuators on the Web, and Semantic Statistics (SAWSemStats@ISWC 2019)*. Vol. 2549. CEUR Workshop Proceedings. Auckland, New Zealand: CEUR-WS.org, 2019. URL: <http://ceur-ws.org/Vol-2549/article-06.pdf>.
- [39] Saliha Sajid, Bjørn Marius Von Zernichow, Ahmet Soylu, and Dumitru Roman. "Predictive Data Transformation Suggestions in Grafterizer using Machine Learning". In: *Proceedings of 13th International Conference on Metadata Semantics and Research Conference (MTSR 2019)*. Vol. 1057. CCIS. Rome, Italy: Springer, 2019, pp. 137–149. DOI: [10.1007/978-3-030-36599-8\\_12](https://doi.org/10.1007/978-3-030-36599-8_12).
- [40] Ahmet Soylu, Brian Elvesæter, Philip Turk, Dumitru Roman, Oscar Corcho, Elena Simperl, George Konstantinidis, and Till Christopher Lech. "Towards an Ontology for Public Procurement Based on the Open Contracting Data Standard". In: *Proceedings of the 18th IFIP Conference on e-Business, e-Services and e-Society (I3E 2019)*. Vol. 11701. LNCS. Trondheim, Norway: Springer, 2019. DOI: [10.1007/978-3-030-29374-1\\_19](https://doi.org/10.1007/978-3-030-29374-1_19).
- [41] Ahmet Soylu, Brian Elvesæter, Philip Turk, Dumitru Roman, Óscar Corcho, Elena Simperl, Ian Makgill, Chris Taggart, Marko Grobelnik, and Till Christopher Lech. "An Overview of the TBFY Knowledge Graph for Public Procurement". In: *Proceedings of the ISWC 2019 Posters & Demonstrations, Industry, and Outrageous Ideas*. Vol. 2456. CEUR Workshop Proceedings. Auckland, New Zealand: CEUR-WS.org, 2019, pp. 53–56. URL: <http://ceur-ws.org/Vol-2456/paper14.pdf>.
- [42] Evgeny Kharlamov, Martin Skjæveland, Theofilos Mailis, Ernesto Jimenez-Ruiz, Guohui Xiao, Ahmet Soylu, Hallstein Lie, and Arild Waaler. "Finding Data Should be Easier than Finding Oil". In: *Proceedings of the IEEE International Conference on Big Data (BigData 2018)*. Seattle, WA, USA: IEEE, 2018, pp. 1747–1756. DOI: [10.1109/BigData.2018.8622035](https://doi.org/10.1109/BigData.2018.8622035).
- [43] Vidar Klungre, Ahmet Soylu, Martin Giese, Arild Waaler, and Evgeny Kharlamov. "Enhancing Visual Query Building Over KGs Using Query Logs". In: *Proceedings of the 8th Joint International Semantic Technology Conference (JIST 2018)*. Vol. 11341. LNCS. Awaji, Japan: Springer, 2018, pp. 77–85. DOI: [10.1007/978-3-030-04284-4\\_6](https://doi.org/10.1007/978-3-030-04284-4_6).
- [44] Elena Simperl, Oscar Corcho, Marko Grobelnik, Dumitru Roman, Ahmet Soylu, Maria Jesús Fernández Ruiz, Stefano Gatti, Chris Taggart, Urška Skok Klima, Annie Ferrari Uliana, Ian Makgill, and Till Christopher Lech. "Towards a Knowledge Graph based Platform for Public Procurement". In: *Proceedings of the 12th International Conference on Metadata and Semantic Research (MTSR 2018)*. Vol. 846. CCIS. Limassol, Cyprus: Springer, 2018, pp. 317–323. DOI: [10.1007/978-3-030-14401-2\\_29](https://doi.org/10.1007/978-3-030-14401-2_29).
- [45] Elena Simperl, Oscar Corcho, Marko Grobelnik, Dumitru Roman, Ahmet Soylu, Maria Jesús Fernández Ruiz, Stefano Gatti, Chris Taggart, Urška Skok Klima, Annie Ferrari Uliana, Ian Makgill, Philip Turk, and Till Christopher Lech. "TheyBuyForYou: Enabling Procurement Data Value Chains". In: *Proceedings of the Workshops of European Conference on Service-Oriented and Cloud Computing (ESOCC 2018)*. Vol. 1115. CCIS. Como, Italy: Springer, 2018, pp. 179–186. DOI: [10.1007/978-3-030-63161-1\\_15](https://doi.org/10.1007/978-3-030-63161-1_15).
- [46] Ahmet Soylu, Oscar Corcho, Elena Simperl, Dumitru Roman, Francisco Yedro Martinez, Chris Taggart, Ian Makgill, Brian Elvesæter, Ben Symonds, Helen McNally, George Konstantinidis, Yuchen Zhao, and Till C. Lech. "Towards Integrating Public Procurement Data into a Semantic Knowledge Graph". In: *Proceedings of the EKAW 2018 Posters and Demonstrations Session*. Vol. 2262. CEUR Workshop Proceedings. Nancy, France: CEUR-WS.org, 2018. URL: <http://ceur-ws.org/Vol-2262/ekaw-poster-01.pdf>.

- [47] Ahmet Soylyu and Evgeny Kharlamov. "Making Complex Ontologies End-User Accessible via Ontology Projections". In: *Proceedings of the 8th Joint International Semantic Technology Conference (JIST 2018)*. Vol. 11341. LNCS. Awaji, Japan: Springer, 2018, pp. 295–303. DOI: [10.1007/978-3-030-04284-4\\_20](https://doi.org/10.1007/978-3-030-04284-4_20).
- [48] Ahmet Soylyu and Evgeny Kharlamov. "Navigating OWL 2 Ontologies through Graph Projection". In: *Proceedings of the 12th International Conference on Metadata and Semantic Research (MTSR 2018)*. Vol. 846. CCIS. Limassol, Cyprus: Springer, 2018, pp. 113–119. DOI: [10.1007/978-3-030-14401-2\\_10](https://doi.org/10.1007/978-3-030-14401-2_10).
- [49] Evgeny Kharlamov, Sebastian Brandt, Martin Giese, Ernesto Jimenez-Ruiz, Yannis Kotidis, Steffen Lamparter, Theofilos Mailis, Christian Neuenstadt, Ozgur L. Ozcep, Christoph Pinkel, Ahmet Soylyu, Christoforos Svingos, Dmitriy Zheleznyakov, Ian Horrocks, Yannis E. Ioannidis, Ralf Moller, and Arild Waaler. "Enabling semantic access to static and streaming distributed data with optique: demo". In: *Proceedings of the 10th ACM International Conference on Distributed and Event-based Systems (DEBS 2016)*. Irvine, USA: ACM, 2016, pp. 350–353. DOI: [10.1145/2933267.2933290](https://doi.org/10.1145/2933267.2933290).
- [50] Evgeny Kharlamov, Sebastian Brandt, Martin Giese, Ernesto Jimenez-Ruiz, Yannis Kotidis, Steffen Lamparter, Theofilos Mailis, Christian Neuenstadt, Ozgur L. Ozcep, Christoph Pinkel, Ahmet Soylyu, Christoforos Svingos, Dmitriy Zheleznyakov, Ian Horrocks, Yannis E. Ioannidis, Ralf Moller, and Arild Waaler. "Scalable Semantic Access to Siemens Static and Streaming Distributed Data". In: *Proceedings of ISWC 2016 Posters & Demos*. Vol. 1690. CEUR Workshop Proceedings. Kobe, Japan: CEUR-WS.org, 2016. URL: <http://ceur-ws.org/Vol-1690/paper16.pdf>.
- [51] Evgeny Kharlamov, Theofilos Mailis, Konstantina Mpereta, Dimitris Bilidas, Sebastian Brandt, Ernesto Jimenez-Ruiz, Steffen Lamparter, Christian Neuenstadt, Ozgur Ozcep, Ahmet Soylyu, Christoforos Svingos, Guohui Xiao, Dmitriy Zheleznyakov, Diego Calvanese, Ian Horrocks, Martin Giese, Yannis Ioannidis, Yannis Kotidis, Ralf Moller, and Arild Waaler. "A Semantic Approach to Polystores". In: *Proceedings of the IEEE International Conference on Big Data (BigData 2016)*. Washington, USA: IEEE, 2016, pp. 2565–2573. DOI: [10.1109/BigData.2016.7840898](https://doi.org/10.1109/BigData.2016.7840898).
- [52] Ahmet Soylyu, Martin Giese, Ernesto Jimenez-Ruiz, Evgeny Kharlamov, Rudolf Schlatte, Christian Neuenstadt, Ozgur Ozcep, Hallstein Lie, Vidar Klungre, Sebastian Brandt, and Ian Horrocks. "Ontology-based Visual Querying with OptiqueVQS: Statoil and Siemens Cases". In: *Proceedings of the 2nd Norwegian Big Data Symposium (NOBIDS 2016)*. Vol. 1818. CEUR Workshop Proceedings. Trondheim, Norway: CEUR-WS.org, 2016. URL: <http://ceur-ws.org/Vol-1818/paper4.pdf>.
- [53] Ahmet Soylyu, Martin Giese, Rudolf Schlatte, Ernesto Jimenez-Ruiz, Ozgur L. Ozcep, and Sebastian Brandt. "A Visual Query System for Stream Data Access over Ontologies". In: *Proceedings of the ESWC 2016 Satellite Events*. Vol. 9989. LNCS. Crete, Greece: Springer, 2016, pp. 161–166. DOI: [10.1007/978-3-319-47602-5\\_32](https://doi.org/10.1007/978-3-319-47602-5_32).
- [54] Ahmet Soylyu, Martin Giese, Rudolf Schlatte, Ernesto Jimenez-Ruiz, Ozgur Ozcep, and Sebastian Brandt. "Domain Experts Surfing on Stream Sensor Data over Ontologies". In: *Proceedings of the 1st Workshop on Semantic Web Technologies for Mobile and Pervasive Environments (SEMPER@ESWC 2016)*. Vol. 1588. CEUR Workshop Proceedings. Crete, Greece: CEUR-WS.org, 2016. URL: <http://ceur-ws.org/Vol-1588/paper4.pdf>.
- [55] Evgeny Kharlamov, Sebastian Brandt, Martin Giese, Ernesto Jimenez-Ruiz, Steffen Lamparter, Christian Neuenstadt, Ozgur Ozcep, Christoph Pinkel, Ahmet Soylyu, Dmitriy Zheleznyakov, Mikhail Roshchin, Stuart Watson, and Ian Horrocks. "Semantic Access to Siemens Streaming Data: the Optique Way". In: *Proceedings of the ISWC 2015 Posters & Demonstrations*. Vol. 1486. CEUR Workshop Proceedings. Bethlehem, Pennsylvania, USA: CEUR-WS.org, 2015. URL: [http://ceur-ws.org/Vol-1486/paper\\_23.pdf](http://ceur-ws.org/Vol-1486/paper_23.pdf).

- [56] Evgeny Kharlamov, Ernesto Jimenez-Ruiz, Christoph Pinkel, Martin Rezk, Martin G. Skjæveland, Ahmet Soylu, Guohui Xiao, Dmitriy Zheleznyakov, Martin Giese, Ian Horrocks, and Arild Waaler. "Optique: Ontology-Based Data Access Platform". In: *Proceedings of the ISWC 2015 Posters & Demonstrations*. Vol. 1486. CEUR Workshop Proceedings. Bethlehem, Pennsylvania, USA: CEUR-WS.org, 2015. URL: [http://ceur-ws.org/Vol-1486/paper\\_24.pdf](http://ceur-ws.org/Vol-1486/paper_24.pdf).
- [57] Ahmet Soylu and Martin Giese. "Qualifying Ontology-based Visual Query Formulation". In: *Proceedings of the 11th Flexible Query Answering Systems (FQAS 2015)*. Vol. 400. Advances in Intelligent Systems and Computing. Cracow, Poland: Springer, 2015, pp. 243–255. DOI: [10.1007/978-3-319-26154-6\\_19](https://doi.org/10.1007/978-3-319-26154-6_19).
- [58] Ahmet Soylu, Evgeny Kharlamov, Dmitriy Zheleznyakov, Ernesto Jimenez-Ruiz, Martin Giese, and Ian Horrocks. "Ontology-based Visual Query Formulation: An Industry Experience". In: *Proceedings of the 11th International Symposium on Visual Computing (ISVC 2015)*. Vol. 9474. LNCS. Las Vegas, Nevada, USA: Springer, 2015, pp. 842–854. DOI: [10.1007/978-3-319-27857-5\\_75](https://doi.org/10.1007/978-3-319-27857-5_75).
- [59] Ahmet Soylu, Evgeny Kharlamov, Dmitriy Zheleznyakov, Ernesto Jimenez-Ruiz, Martin Giese, and Ian Horrocks. "OptiqueVQS: Ontology-based Visual Querying". In: *Proceedings of the Visualizations and User Interfaces for Ontologies and Linked Data (VOILA 2015)*. Vol. 1456. CEUR Workshop Proceedings. Bethlehem, Pennsylvania, USA: CEUR-WS.org, 2015. URL: <http://ceur-ws.org/Vol-1456/paper10.pdf>.
- [60] Evgeny Kharlamov, Nina Solomakhina, Ozgur Ozcep, Dmitriy Zheleznyakov, Thomas Hubauer, Steffen Lamparter, Mikhail Roshchin, Ahmet Soylu, and Stuart Watson. "How Semantic Technologies can Enhance Data Access at Siemens Energy". In: *Proceedings of the 13th International Semantic Web Conference (ISWC 2014)*. Vol. 8796. LNCS. Trentino, Italy: Springer, 2014, pp. 601–619. DOI: [10.1007/978-3-319-11964-9\\_38](https://doi.org/10.1007/978-3-319-11964-9_38).
- [61] Torgeir Lebesbye and Ahmet Soylu. "Towards a Visual Annotation Tool for End-User Semantic Content Authoring". In: *Proceedings of the International Workshop on Visualizations and User Interfaces for Knowledge Engineering and Linked Data Analytics (VISUAL2014)*. Vol. 1299. CEUR Workshop Proceedings. Linköping, Sweden: CEUR-WS.org, 2014. URL: <http://ceur-ws.org/Vol-1299/paper6.pdf>.
- [62] Ahmet Soylu, Martin Giese, Ernesto Jimenez-Ruiz, Evgeny Kharlamov, Dmitriy Zheleznyakov, and Ian Horrocks. "Towards Exploiting Query History for Adaptive Ontology-based Visual Query Formulation". In: *Proceedings of the 8th International Conference on Metadata and Semantic Research (MTSR 2014)*. Vol. 478. CCIS. Karlsruhe, Germany: Springer, 2014, pp. 107–119. DOI: [10.1007/978-3-319-13674-5\\_11](https://doi.org/10.1007/978-3-319-13674-5_11).
- [63] Ahmet Soylu, Martin Giese, Ernesto Jimenez-Ruiz, Evgeny Kharlamov, Dmitriy Zheleznyakov, and Ian Horrocks. "Why not simply Google?". In: *Proceedings of the 8th Nordic Conference on Human-Computer Interaction (NordiCHI 2014)*. Helsinki, Finland: ACM, 2014, pp. 1039–1042. DOI: [10.1145/2639189.2670270](https://doi.org/10.1145/2639189.2670270).
- [64] Ahmet Soylu, Evgeny Kharlamov, Dmitriy Zheleznyakov, Ernesto Jimenez-Ruiz, Martin Giese, and Ian Horrocks. "OptiqueVQS: Visual Query Formulation for OBDA". In: *Proceedings of the 27th International Workshop on Description Logics (DL 2014)*. Vol. 1193. CEUR Workshop Proceedings. Vienna, Austria: CEUR-WS.org, 2014. URL: [http://ceur-ws.org/Vol-1193/paper\\_88.pdf](http://ceur-ws.org/Vol-1193/paper_88.pdf).
- [65] Diego Calvanese, Martin Giese, Peter Haase, Ian Horrocks, Thomas Hubauer, Yanniss Ioannidis, Ernesto Jimenez-Ruiz, Evgeny Kharlamov, Herald Kllapi, Johan Klüwer, Manolis Koubarakis, Steffen Lamparter, Ralf Möller, Christian Neuenstadt, Toralv Nordtveit, Özgür Özcep, Mariano Rodriguez-Muro, Mikhail Roshchin, Fabio Savo, Michael Schmidt, Ahmet Soylu, Arild Waaler, and Dmitriy Zheleznyakov. "Optique: OBDA Solution for Big Data". In: *Proceedings of the ESWC 2013 Satellite Events*. Vol. 7955. LNCS. Montpellier, France: Springer, 2013, pp. 293–295. DOI: [10.1007/978-3-642-41242-4\\_48](https://doi.org/10.1007/978-3-642-41242-4_48).

- [66] Diego Calvanese, Martin Giese, Peter Haase, Ian Horrocks, Thomas Hubauer, Yannis Ioannidis, Ernesto Jimenez-Ruiz, Evgeny Kharlamov, Herald Kllapi, Manolis Koubarakis, Steffen Lamparter, Ralf Möller, Christian Neuenstadt, Özgür Özcep, Mariano Rodriguez-Muro, Mikhail Roshchin, Marco Ruzzi, Fabio Savo, Michael Schmidt, Ahmet Soylu, Arild Waaler, and Dmitriy Zheleznyakov. "The Optique Project: Towards OBDA Systems for Industry". In: *Proceedings of the 10th OWL: Experiences and Directions Workshop (OWLED 2013)*. Vol. 1080. CEUR Workshop Proceedings. Montpellier, France: CEUR-WS.org, 2013. URL: [http://ceur-ws.org/Vol-1080/owlled2013\\_20.pdf](http://ceur-ws.org/Vol-1080/owlled2013_20.pdf).
- [67] Bernardo Cuenca Grau, Martin Giese, Ian Horrocks, Thomas Hubauer, Ernesto Jimenez-Ruiz, Evgeny Kharlamov, Michael Schmidt, Ahmet Soylu, and Dmitriy Zheleznyakov. "Towards Query Formulation and Query-Driven Ontology Extensions in OBDA Systems". In: *Proceedings of the 10th OWL: Experiences and Directions Workshop (OWLED 2013)*. Vol. 1080. CEUR Workshop Proceedings. Montpellier, France: CEUR-WS.org, 2013. URL: [http://ceur-ws.org/Vol-1080/owlled2013\\_19.pdf](http://ceur-ws.org/Vol-1080/owlled2013_19.pdf).
- [68] Peter Haase, Ian Horrocks, Dag Hovland, Thomas Hubauer, Ernesto Jimenez-Ruiz, Evgeny Kharlamov, Johan Klüwer, Christoph Pinkel, Riccardo Rosati, Valerio Santarelli, Ahmet Soylu, and Dmitriy Zheleznyakov. "Optique System: Towards ontology and mapping management in OBDA solutions". In: *Proceedings of the 2nd International Workshop on Debugging Ontologies and Ontology Mappings (WoDOOM 2013)*. Vol. 999. CEUR Workshop Proceedings. Montpellier, France: CEUR-WS.org, 2013. URL: <http://ceur-ws.org/Vol-999/paper2.pdf>.
- [69] Evgeny Kharlamov, Martin Giese, Ernesto Jimenez-Ruiz, Martin G. Skjæveland, Ahmet Soylu, Dmitriy Zheleznyakov, Timea Bagosi, Marco Console, Peter Haase, Ian Horrocks, Sarunas Marciuska, Christoph Pinkel, Mariano Rodriguez-Muro, Marco Ruzzi, Valerio Santarelli, Domenico Fabio Savo, Kunal Sengupta, Michael Schmidt, Evgenij Thorstensen, Johannes Trame, and Arild Waaler. "Optique 1.0: Semantic Access to Big Data: The Case of Norwegian Petroleum Directorate's FactPages". In: *Proceedings of the ISWC 2013 Posters & Demonstrations*. Vol. 1035. CEUR Workshop Proceedings. Sydney, Australia: CEUR-WS.org, 2013. URL: [http://ceur-ws.org/Vol-1035/iswc2013\\_demo\\_17.pdf](http://ceur-ws.org/Vol-1035/iswc2013_demo_17.pdf).
- [70] Evgeny Kharlamov, Ernesto Jimenez-Ruiz, Dmitriy Zheleznyakov, Dimitris Bilidas, Martin Giese, Peter Haase, Ian Horrocks, Herald Kllapi, Manolis Koubarakis, Özgür Özcep, Mariano Rodriguez-Muro, Riccardo Rosati, Michael Schmidt, Rudolf Schlatte, Ahmet Soylu, and Arild Waaler. "Optique: Towards OBDA Systems for Industry". In: *Proceedings of the ESWC 2013 Satellite Events*. Vol. 7955. LNCS. Montpellier, France: Springer, 2013, pp. 125–140. DOI: [10.1007/978-3-642-41242-4\\_11](https://doi.org/10.1007/978-3-642-41242-4_11).
- [71] Ahmet Soylu, Martin Giese, Ernesto Jimenez-Ruiz, Evgeny Kharlamov, Dmitriy Zheleznyakov, and Ian Horrocks. "OptiqueVQS – Towards an Ontology-based Visual Query System for Big Data". In: *Proceedings of the 5th International Conference on Management of Emergent Digital EcoSystems (MEDES 2013)*. Luxembourg: ACM, 2013, pp. 119–126. DOI: [10.1145/2536146.2536149](https://doi.org/10.1145/2536146.2536149).
- [72] Ahmet Soylu, Martin G. Skjæveland, Martin Giese, Ian Horrocks, Ernesto Jimenez-Ruiz, Evgeny Kharlamov, and Dmitriy Zheleznyakov. "A Preliminary Approach on Ontology-based Visual Query Formulation for Big Data". In: *Proceedings of the 7th International Conference on Metadata and Semantic Research (MTSR 2013)*. CCIS. Thessaloniki, Greece: Springer, 2013, pp. 201–212. DOI: [10.1007/978-3-319-03437-9\\_21](https://doi.org/10.1007/978-3-319-03437-9_21).
- [73] Felix Mödritscher, Wolfgang Taferner, Ahmet Soylu, and Patrick De Causmaecker. "Visualization of networked collaboration in digital ecosystems through two-mode network patterns". In: *Proceedings of the International Conference on Management of Emergent Digital EcoSystems (MEDES 2011)*. San Francisco, California: ACM, 2011, pp. 158–162. DOI: [10.1145/2077489.2077519](https://doi.org/10.1145/2077489.2077519).



- [74] Ahmet Soylu, Mieke Vandewaetere, Kelly Wauters, Igor Jacques, Patrick De Causmaecker, Piet Desmet, Geraldine Clarebout, and Wim Van den Noortgate. "Ontology-Driven Adaptive and Pervasive Learning Environments – APLEs: An Interdisciplinary Approach". In: *Proceedings of the 1st International Conference on Interdisciplinary Research on Technology, Education and Communication (ITEC 2010)*. Vol. 126. CCIS. Kortrijk, Belgium: Springer, 2011, pp. 99–115. DOI: [10.1007/978-3-642-20074-8\\_9](https://doi.org/10.1007/978-3-642-20074-8_9).
- [75] Ahmet Soylu, Fridolin Wild, Felix Mödritscher, Piet Desmet, Serge Verlinde, and Patrick De Causmaecker. "Mashups and widget orchestration". In: *Proceedings of the International Conference on Management of Emergent Digital EcoSystems (MEDES 2011)*. San Francisco, California: ACM, 2011, pp. 226–234. DOI: [10.1145/2077489.2077532](https://doi.org/10.1145/2077489.2077532).
- [76] Ahmet Soylu, Felix Mödritscher, and Patrick De Causmaecker. "Multi-facade and Ubiquitous Web Navigation and Access through Embedded Semantics". In: *Proceedings of the 2nd International Conference on Future Generation Information Technology (FGIT 2010)*. Vol. 6485. LNCS. Jeju Island, Korea: Springer, 2010, pp. 272–289. DOI: [10.1007/978-3-642-17569-5\\_27](https://doi.org/10.1007/978-3-642-17569-5_27).
- [77] Ahmet Soylu, Felix Mödritscher, and Patrick De Causmaecker. "Utilizing Embedded Semantics for User-Driven Design of Pervasive Environments". In: *Proceedings of the 4th International Conference on Metadata and Semantic Research (MTSR 2010)*. Vol. 108. CCIS. Alcalá de Henares, Spain: Springer, 2010, pp. 63–77. DOI: [10.1007/978-3-642-16552-8\\_7](https://doi.org/10.1007/978-3-642-16552-8_7).
- [78] Ahmet Soylu, Fridolin Wild, Felix Mödritscher, and Patrick De Causmaecker. "Semantic Mash-Up Personal and Pervasive Learning Environments (SMupple)". In: *Proceedings of the 6th Symposium of the Workgroup Human-Computer Interaction and Usability Engineering (USAB 2010)*. Vol. 6389. LNCS. Klagenfurt, Austria: Springer, 2010, pp. 501–504. DOI: [10.1007/978-3-642-16607-5\\_37](https://doi.org/10.1007/978-3-642-16607-5_37).
- [79] Ahmet Soylu, Fridolin Wild, Felix Mödritscher, and Patrick De Causmaecker. "Towards Developing a Semantic Mashup Personal and Pervasive Learning Environment: SMupple". In: *Proceedings of the 3rd Workshop on Mashup Personal Learning Environments (MUPPLE 2010)*. Vol. 638. CEUR Workshop Proceedings. Barcelona, Spain: CEUR-WS.org, 2010. URL: [http://ceur-ws.org/Vol-638/soylu\\_mupple10.pdf](http://ceur-ws.org/Vol-638/soylu_mupple10.pdf).
- [80] Ahmet Soylu and Patrick De Causmaecker. "Embedded Semantics Empowering Context-Aware Pervasive Computing Environments". In: *Proceedings of the Symposia and Workshops on Ubiquitous, Autonomic and Trusted Computing (UIC-ATC 2009)*. Brisbane, Australia: IEEE Computer Society, 2009, pp. 310–317. DOI: [10.1109/UIC-ATC.2009.12](https://doi.org/10.1109/UIC-ATC.2009.12).
- [81] Ahmet Soylu and Patrick De Causmaecker. "Merging model driven and ontology driven system development approaches pervasive computing perspective". In: *Proceedings of the 24th International Symposium on Computer and Information Sciences (ISCIS 2009)*. Guzelyurt, Cyprus: IEEE, 2009, pp. 730–735. DOI: [10.1109/ISCIS.2009.5291915](https://doi.org/10.1109/ISCIS.2009.5291915).
- [82] Ahmet Soylu, Patrick De Causmaecker, and Piet Desmet. "Context and Adaptivity in Context-Aware Pervasive Computing Environments". In: *Proceedings of the Symposia and Workshops on Ubiquitous, Autonomic and Trusted Computing (UIC-ATC 2009)*. Brisbane, Australia: IEEE Computer Society, 2009, pp. 94–101. DOI: [10.1109/UIC-ATC.2009.11](https://doi.org/10.1109/UIC-ATC.2009.11).
- [83] Ahmet Soylu, Selahattin Kuru, Fridolin Wild, and Felix Mödritscher. "E-Learning and Microformats: A Learning Object Harvesting Model and a Sample Application". In: *Proceedings of the 1st International Workshop on Mashup Personal Learning Environments (MUPPLE 2008)*. Vol. 388. CEUR Workshop Proceedings. Maastricht, The Netherlands: CEUR-WS.org, 2008. URL: <http://ceur-ws.org/Vol-388/soylu.pdf>.
- [84] Selahattin Kuru, Maria Nawojczyk, Katrin Niglas, Egle Butkeviciė, and Ahmet Soylu. "Facilitating Cross-border Self-directed Collaborative Learning: The iCamp Case". In: *Proceedings of the European Distance and E-Learning Network (EDEN 2007)*. Naples, Italy, 2007.

- [85] Ahmet Soylu, Orhan Karahasan, and Selahattin Kuru. "Çok Uluslu, İş Birlikçi, Sosyal E-Öğrenme: iCamp Örneği". In: *Proceedings of Akademik Bilişim (AB 2007)*. Kutahya, Turkey, 2007.
- [86] Fridolin Wild, Steinn E. Sigurðarson, Stefan Sobernig, Christina Stahl, Ahmet Soylu, Vahur Rebas, Dariusz Gorka, Anna Danielewska-Tulecka, and Antonio Tapiador. "An Interoperability Infrastructure for Distributed Feed Networks". In: *Proceedings of the 1st International Workshop on Collaborative Open Environments for Project-Centered Learning (COOPER 2007)*. Vol. 309. CEUR Workshop Proceedings. Crete, Greece: CEUR-WS.org, 2007. URL: <http://ceur-ws.org/Vol-309/paper01.pdf>.

### Technical Reports

- [87] Anette Kolmos, Selahattin Kuru, Hans Hansen, Taner Eskil, Luca Podesta, Flemming Fink, Erik De Graaff, Jan U. Wolf, and Ahmet Soylu. *Problem Based Learning*. Tech. rep. TREE-Teaching and Research in Engineering in Europe, 2007. URL: <http://www.unifi.it/tree/dl/oc/b5.pdf>.

### Proceedings

- [88] Victor Gutierrez Basulto, Tomas Kliegr, Ahmet Soylu, Martin Giese, and Dumitru Roman, eds. *Proceedings of the 4th International Joint Conference on Rules and Reasoning (RuleML+RR 2020)*. Vol. 12173. LNCS. Oslo, Norway: Springer, 2020. DOI: [10.1007/978-3-030-57977-7](https://doi.org/10.1007/978-3-030-57977-7).
- [89] Ahmet Soylu, Sotiris Moschoyiannis, Guido Governatori, Mantas Simkus, Petros Stefanias, Alexander Steen, and Adrian Giurca, eds. *Proceedings of the RuleML+RR 2019 Doctoral Consortium and Rule Challenge*. Vol. 2438. CEUR Workshop Proceedings. Bolzano, Italy: CEUR-WS.org, 2019. URL: <http://ceur-ws.org/Vol-2438/>.

### References

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