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PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

Abstract:

This document is deliverable D9.2 *Dissemination and Exploitation report I*. It reports on the initiatives that the AMIDST consortium has taken in the first year of the project related to dissemination of knowledge and information on the project both internally and externally. A range of activities are planned to support the dissemination of AMIDST results. These are important to ensure a high impact of the AMIDST outputs. Exploitation activities are planned for the last year of the project and beyond the completion of the project. However, some exploitation activities have already been started.

Keyword list: dissemination exploitation.

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Document History

Version	Date	Author (Unit)	Description
0.3	04.12.2014	Anne Bock	Started document, template prepared
0.6	09.12.2014	Anders L. Madsen	Added content to the template
1.0	17.12.2014	Anne Bock	Check of layout, spelling and finalisation. Submission

1 Executive Summary

This document is deliverable D9.2 *Dissemination and Exploitation report I*. It reports on the planned and ongoing dissemination and exploitation initiatives taken by the AMIDST consortium in the first year of the project. These activities relate to dissemination of knowledge and information on the project both internally and externally. A range of activities are planned to support the dissemination of AMIDST results and outputs. These are important to ensure a high impact of the AMIDST outputs.

The dissemination activities are proceeding according to plan. The planning needs to be adjusted and extended during and beyond the duration of the AMIDST project in order to be aligned with the outputs of the project. Major dissemination activities are planned for the second and third year of the project.

Exploitation activities are planned for the last year of the project and beyond the completion of the project. However, some exploitation activities have already been started.

2 Introduction

This is the first dissemination and exploitation report of the AMIDST project. A total of three dissemination and exploitation reports are planned for the duration of the project. This deliverable reports on the planned and ongoing dissemination and exploitation initiatives taken by the AMIDST consortium in the first year of the project. These activities relate to dissemination of knowledge and information on the project both internally and externally. The AMIDST dissemination activities aim to communicate the results of the project to a wider audience. This includes researchers in academia as well as industry and the general public. AMIDST is expected to generate methods, algorithms and tools that can be applied both in research as well as in industry.

The AMIDST consortium plans to disseminate results through a number of different channels. This includes scientific publications in both journals and at conferences, presentations, posters, special sessions, seminars, workshops and tutorials as well as traditional channels such as the project website, press releases, a project fact sheet (AMIDST Consortium D10.1, 2014), newsletters, a project page under the social network LinkedIn and a demonstration at the end of the project of the Daimler use-case (assuming that a prototype vehicle is available and that the developed solution is effective).

The dissemination activities are proceeding according to plan. The planning needs to be adjusted and extended during and beyond the duration of the AMIDST project in order to be aligned with the output of the project. Major dissemination activities are planned for the second and third year of the project

Exploitation activities are planned mainly to be carried out towards the end of the project and beyond the project period. However, some initial exploitation activities have already been started.

3 Dissemination

This section reports on the dissemination activities in the AMIDST project related to publications; presentations; LinkedIn project page; arrangement of a special session at a conference with a follow-up special issue in a journal; a proposal for a tutorial at a conference and the project website.

3.1 Publications

In the first 12 months of the AMIDST project five scientific articles have been published. This amounts to four conference articles and one journal article. The five articles are:

1. Masegosa, A. R. (2014). Stochastic Discriminative EM. In proceedings of the Uncertainty in Artificial Intelligence Conference (UAI), July 23-27, Quebec, Canada, pages 573-582.
2. Madsen, A. L., Jensen, F., Salmerón, A., Karlsten, M., Langseth, H. and Nielsen, T.D. (2014). A New Method for Vertical Parallelisation of TAN Learning Based on Balanced Incomplete Block Designs. In proceedings of the Seventh European Workshop on Probabilistic Graphical Models (PGM), September 17-19, Utrecht, The Netherlands, pages 302-317.
3. Weidl, G., Madsen, A. L., Dietmar, K. and Breuer, G. (2014). Optimizing Bayesian Networks for Recognition of Driving Manoeuvres to Meet the Automotive Requirements. In proceedings of 2014 IEEE Multi-Conference on Systems and Control on 8-10 October 2014 in Nice, France, pages 1626-1631.
4. Hovda, S. (2014) Using pseudometrics in kernel density estimation. In Journal of Nonparametric Statistics, 26:669-696.
5. Nielsen, T.D., Hovda, S., Fernández, A., Langseth, H., Madsen, A.L., Masegosa, A., Salmerón, A. (2014). Requirement Engineering for a Small Project with Pre-Specified Scope. NIK: Norsk Informatikkonferanse 2014 - Høgskolen i Østfold, November 17-19, Fredrikstad, Norge, 12 pages.

All articles have a section with acknowledgment of the contribution from the European Union.

An electronic copy of the final manuscript accepted for publication or the published version of the manuscript can be obtained from the institutional repository VBN at Aalborg University. There is a separate entry for the AMIDST project under VBN. It can be found here: <http://vbn.aau.dk/da/projects/analysis-of-massive-data-streams--amidst%2817b55944-4d82-4449-9b99-ac65176f15a6%29.html>

Information on the articles has been uploaded to the bibliographic social network at <http://www.citeulike.org>. Here all articles are tagged with “AMIDST-619209”. The bibliographic social network at <http://www.citeulike.org> makes it possible to retrieve all AMIDST publications using the tag “AMIDST-619209”.

The project website exposes the CiteULike “AMIDST-619209” tag here: <http://amidst.eu/papersandpresentations/papers>.

The project website lists all the publications produced here: <http://www.amidst.eu>
<http://amidst.eu/papersandpresentations/papers>

From this website it is possible to access electronic copies of all articles.

The table shown below shows the achieved and planned submissions of manuscripts to conferences and workshops.

Conference /workshop	2014	2015	2016	Comments
SCAI		T2.2, T4.3		
PGM	T4.1		T3.2,T4.2,WP5	
UAI	<i>T4.2</i>		T3.3, T4.2	
CAEPIA		T3.1, T4.1		
IDA		T3.3	T4.4	
INFORMS			T4.3	
IJCAI		T4.4	T3.2	
ECSQARU		T3.2		
IV	WP6	WP6	WP6	Publication in IEEE Multi-conference on Systems and Control
IPTC			WP7	
CSCC			WP8	
NIK	<i>WPI</i>			

The publications in boldface have been achieved. The publications in italic were not planned in the DoW. These are additional publications acknowledging the AMIDST project. Some of the conferences we planned to submit manuscripts to in 2015 have very early submission deadlines. In some cases, it will not be possible to meet these deadlines and other conferences will be considered instead. This mainly applies to IV (9/1) and IJCAI (12/2).

3.2 Presentations

In the first 12 months of the AMIDST project five (scientific) presentations of the AMIDST project have been made. The five presentations are:

1. Stochastic Discriminative EM by Andres R. Masegosa at the 30th Conference on Uncertainty in Artificial Intelligence (UAI) on July 23-27 in Quebec, Canada.
2. A New Method for Vertical Parallelisation of TAN Learning Based on Balanced Incomplete Block Designs by Anders L Madsen at the 7th European Workshop on Probabilistic Graphical Models (PGM) on 17-19 September 2014 in Utrecht, The Netherlands.
3. Optimizing Bayesian Networks for Recognition of Driving Manoeuvres to Meet the Automotive Requirements by Galia Weidl at the 2014 IEEE Multi-Conference on Systems and Control on 8-10 October 2014 in Nice, France.
4. AMIDST - Analysis of Massive Data Streams poster presentation by Antonio Salmeron at the “European researchers night” meeting on September 26, 2014, in Almería, Spain.

5. Requirement Engineering for a Small Project with Pre-Specified Scope by Sigve Hovda at Norsk Informatikkonferense, 17-19 November 2014, in Fredrikstad, Norway.

All presentation material for which this is relevant will be published under a Creative Commons license (www.creativecommons.org). The five presentations listed above are published under a Creative Commons license at the project website.

3.3 *Press Releases*

The consortium has released a press release on the AMIDST project. It has been published on the web site of Aalborg University. The links are (the first article is in Danish):

- AAU.dk: [Data i stride strømme advarer i biler, banker og olieboringer](#)
- AAU.dk, English: [Large Streams of Data Warn Cars, Banks and Oil Drillers](#)

The press release has appeared in at least these places:

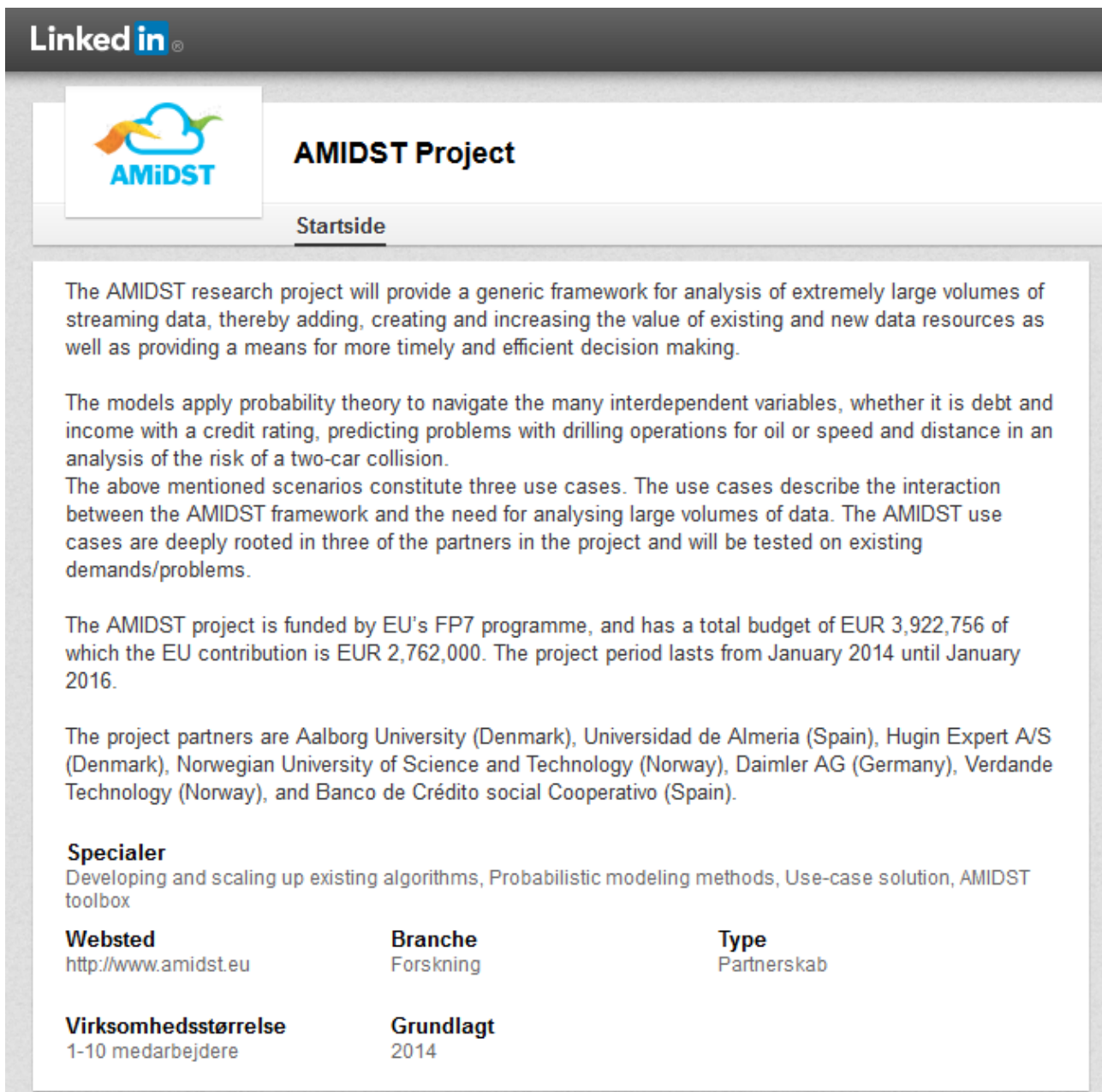
- Science Week Czek: [Large Streams of Data Warn Cars, Banks and Oil Drillers](#)
- Veooz: [Large Streams of Data Warn Cars, Banks and Oil Drillers](#)
- eScience News: [Large Streams of Data Warn Cars, Banks and Oil Drillers](#)
- World News: [Large Streams of Data Warn Cars, Banks and Oil Drillers](#)
- Phys.org: [Large Streams of Data Warn Cars, Banks and Oil Drillers](#)
- Min By Aalborg: [Data - Varslingssystemer](#)
- Alt Om Teknik: [Data i stride strømme advarer i biler, banker og olieboringer](#)
- AAU School of Information and Communications Technology: [Large Streams of Data Warn Cars, Banks and Oil Drillers](#)
- Elektronik Nyt: [Data i stride strømme advarer i biler, banker og olieboringer](#)
- AAU.dk: [Data i stride strømme advarer i biler, banker og olieboringer](#)
- AAU.dk, English: [Large Streams of Data Warn Cars, Banks and Oil Drillers](#)
- AlphaGalileo: [Large Streams of Data Warn Cars, Banks and Oil Drillers](#)
- El Mundo: [E-car, ión litio, Big Data... el laboratorio español sigue muy vivo](#)
- Nova Ciencia, Science News journal: [La nueva era de la información](#)
- La Voz de Almería: ["La UAL, en la cima de la investigación europea de datos"](#)
- Teleprensa: ["La UAL se sitúa en la cima de la investigación europea en la analítica escalable de datos"](#)
- ABCandalucía: ["La UAL lidera la investigación europea en la analítica escalable de datos"](#)
- Granada en la red: ["Una Aplicación Software Para Mejorar La Predicción Del Riesgo En Operaciones De Crédito"](#)
- ideal.es: ["La UAL despunta en la analítica de datos"](#)

3.4 *LinkedIn Project Page*


A separate LinkedIn page has been created for the AMIDST project. The purpose of the LinkedIn page is to support both internal and external dissemination initiatives. Many researchers and professionals are connected through LinkedIn. This makes it easy for project partners to share information on the progress of the AMIDST project with a large group of people and for other people to register as followers of the project. This also aims to support initiatives on creating a community around the open source implementation of the algorithms in the AMIDST project.

The start page of the AMIDST project page under LinkedIn is <https://www.Linkedin.com/company/amidst-project>

The screen dump included below shows the main page of the LinkedIn website:



LinkedIn

 **AMIDST Project**

Startside

The AMIDST research project will provide a generic framework for analysis of extremely large volumes of streaming data, thereby adding, creating and increasing the value of existing and new data resources as well as providing a means for more timely and efficient decision making.

The models apply probability theory to navigate the many interdependent variables, whether it is debt and income with a credit rating, predicting problems with drilling operations for oil or speed and distance in an analysis of the risk of a two-car collision.

The above mentioned scenarios constitute three use cases. The use cases describe the interaction between the AMIDST framework and the need for analysing large volumes of data. The AMIDST use cases are deeply rooted in three of the partners in the project and will be tested on existing demands/problems.

The AMIDST project is funded by EU's FP7 programme, and has a total budget of EUR 3,922,756 of which the EU contribution is EUR 2,762,000. The project period lasts from January 2014 until January 2016.

The project partners are Aalborg University (Denmark), Universidad de Almeria (Spain), Hugin Expert A/S (Denmark), Norwegian University of Science and Technology (Norway), Daimler AG (Germany), Verdande Technology (Norway), and Banco de Crédito social Cooperativo (Spain).

Specialer
Developing and scaling up existing algorithms, Probabilistic modeling methods, Use-case solution, AMIDST toolbox

Websted http://www.amidst.eu	Branche Forskning	Type Partnerskab
Virksomhedsstørrelse 1-10 medarbejdere	Grundlagt 2014	

The objective is to publish short news articles on the progress of the AMIDST project on a regular basis. We aim for publishing one short news article every other week.

Here are the two most recent news articles published under the LinkedIn project page:

Seneste opdateringer

AMIDST Project Four researchers from the AMIDST consortium have planned at special session at the ECSQARU 2015 Conference. The session is called: PROBABILISTIC GRAPHICAL MODELS FOR SCALABLE DATA ANALYTICS



CALL FOR PAPERS

amidst.eu · CALL FOR PAPERS ECSQARU'2015 SPECIAL SESSION ON PROBABILISTIC GRAPHICAL MODELS FOR SCALABLE DATA ANALYTICS Today, omnipresent sensors are continuously providing streaming data on the environments in which they operate. For instance, a typical...

Synes godt om (9) · Kommenter · Del · 3 dage siden

Ana M. Martinez, Frank Jensen +7

Tilføj en kommentar ...

AMIDST Project New post docs have joined the consortium and will work together with the experienced researchers on achieving the AMIDST objectives.



Joining knowledge for analyzing streaming data

amidst.eu · Joining knowledge for analyzing streaming data
Joining knowledge for analyzing streaming data Right from the beginning of the project, it has been an important objective of AMIDST to join partners and transfer knowledge internally within the...

Synes godt om (14) · Kommenter (1) · Del · 5 dage siden

At the time of writing the AMIDST LinkedIn page has 45 followers.

3.5 Conference Special Session and Special Issue

Four researchers from the AMIDST consortium have submitted a proposal for a special session on probabilistic graphical models (PGMs) for scalable data analytics at the ECSQARU 2015 conference to take place in France on July 15th to 17th 2015.

The special session proposal has been accepted by the organisers. The call for papers is:

CALL FOR PAPERS

ECSQARU'2015 SPECIAL SESSION ON PROBABILISTIC GRAPHICAL MODELS FOR SCALABLE DATA ANALYTICS

DESCRIPTION AND TOPICS

Today, omnipresent sensors are continuously providing streaming data on the environments in which they operate. For instance, a typical monitoring and analysis system may use streaming data generated by sensors to monitor the status of a particular device. Analysis and monitoring systems should be designed to make predictions about the future behaviour of the device, or diagnostically infer the most likely system configuration that has produced the observed data. Sources of streaming data with even a modest updating frequency can produce extremely large volumes of data, thereby making efficient and accurate data analysis and prediction difficult. This calls for scalable data analytics. From the point of view of inference and learning from massive data streams, there have been advances consisting of scaling up existing methods for batch data as well as methods for adapting to the continuous arrival of new data. However, data stream processing is still a highly challenging problem. One of the main lines where research is needed is related to handling uncertainty in data, where principled methods and algorithms for dealing with uncertainty in massive data applications are required.

Probabilistic graphical models (PGMs) provide a well-founded and principled approach for performing inference and belief updating in complex domains endowed with uncertainty.

This special session welcomes contributions aimed at enabling PGMs as a key tool for scalable data analytics. We welcome theoretical and applied contributions related to the following topics:

- *Scalable PGM inference and learning.*
- *Learning PGMs from data streams.*
- *Inference and learning in Dynamic models.*
- *Scalable algorithms for classification and regression based on PGMs.*
- *Applications involving data streams.*
- *Parallel / distributed algorithms.*

Organisers

- *Helge Langseth. Norwegian University of Science and Technology (Trondheim, Norway).*
 - *Anders L. Madsen. Hugin Expert A/S and Aalborg University (Aalborg, Denmark).*
 - *Thomas D. Nielsen. Aalborg University (Aalborg, Denmark).*
 - *Antonio Salmerón. University of Almería (Almería, Spain).*
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The four organisers conform the Project Science Review Group of the EU-FP7 project "AMIDST- Analysis of massive data streams" (<http://www.amidst.eu>) that deals with scalable algorithms based on PGMs.

Based on the ECSQARU session on PGMs for scalable data analytics, a special issue will appear in the International Journal Approximate Reasoning (IJAR). The website of the journal is <http://www.journals.elsevier.com/international-journal-of-approximate-reasoning/>.

3.6 Tutorial

The consortium plans to submit a proposal for a tutorial on using elements of the AMIDST toolbox in the statistical software package R to the useR!2015 conference to take place in Aalborg, Denmark on June 30th to July 3rd 2015.

3.7 AMIDST.eu

The construction of the project website <http://www.amidst.eu> was described in Deliverable D10.1 (AMIDST Consortium D10.1, 2014). The website is an important tool in the dissemination initiatives. For instance, it contains updated information on all project publications and presentations.

We continue to develop the public part of the project website with new and relevant information. The private part of the website is used as a repository to store information on meetings, deliverables and other pieces of information to be shared between project partners.

4 Exploitation

Task 9.2 Results Exploitation is according to the Gantt diagram in the Description of Work (DoW) scheduled to start in month 25 of the project. The task consists of three main initiatives (taken from the DoW):

- 1. The solutions developed in AMIDST will be validated by the industrial partners and they will also be the direct beneficiaries of the results they will provide.*
- 2. Some of the software developments will serve to extend the HUGIN tool, and therefore be exploited commercially.*
- 3. An open source strategy will be defined around the AMIDST toolbox*

Initiatives related to items 2) and 3) have already started. Work package 5 on *Developments in HUGIN software Tools* have produced prototype implementations that will be polished and further developed to reach commercial quality standard and is expected to be released as part of the official HUGIN software during the AMIDST project.

The open source strategy is under development and will be published as Deliverable D9.3 Open source strategy report (AMIDST Consortium D9.3, 2014).

Preliminary exploitation plans for the individual industrial partners of the consortium are included in the Description of Work. These plans are to be adjusted and elaborated in Deliverable 9.4 and Deliverable 9.5 as Task 9.3 starts.

5 References

- AMIDST Consortium D10.1. (2014). *Project Web site. Deliverable D10.1.*
- AMIDST Consortium D9.1. (2014). *Project Fact Sheet. Deliverable D9.1.*
- AMIDST Consortium D9.3. (2014). *Open source software strategy report. Deliverable 9.3.*
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