

FP7-ICT 619209 / AMIDST

24/02/2015





Project no.: 619209

Project full title: Analysis of Massive Data STreams

Project Acronym: AMIDST

Deliverable no.: D3.2

Title of the deliverable: Progress report on software development

Contractual Date of Delivery to the CEC: 31.03.2015 **Actual Date of Delivery to the CEC:** 31.03.2015 Organisation name of lead contractor for this deliverable: AAU

Author(s): Hanen Borchani, Antonio

> Fernández, Helge Langseth, Anders L. Madsen, Ana M. Martínez, Andrés Masegosa, Thomas D. Nielsen, Antonio Salmerón

Participants(s): P01, P02, P03, P04, P05, P06, P07

Work package contributing to the deliverable: WP2 Nature: R Version: 1.0 **Total number of pages:**

Start date of project: 1st January 2014 Duration: 36 month

Project co-funded by the European Commission within the Seventh Framework Programme (2007-2013)				
Dissemination Level				
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)			
СО	Confidential, only for members of the consortium (including the Commission Services)			

Abstract:

In this document, we describe the pr	ogress report on software o	development.
--------------------------------------	-----------------------------	--------------

Keyword list: AMIDST software development, progress report, implementation.

Contents

1	Executive summary	4
2	Introduction	5
3	Inference engine	5
	3.1 Variational message Passing (VMP)	5
	3.2 Expectation propagation (EP)	5
4	Conclusion	5

 $\begin{array}{c} {\rm Page~3~of~5} \\ {\rm FP7\text{-}ICT~619209~/~AMIDST} \end{array}$ Public

Document history

Version	Date	Author (Unit)	Description
v0.3	10/03/2015	All consortium members	The software library imple-
			mentation for the AMIDST
			modelling framework dis-
			cussed and established
v0.6	20/03/2015	Hanen Borchani, Antonio	Initial version of document
		Fernández, Helge Langseth,	finished and reviewed
		Anders L. Madsen, Ana M.	
		Martínez, Andrés Masegosa,	
		Thomas D. Nielsen, Antonio	
		Salmerón	
v1.0	31/03/2015	Hanen Borchani, Antonio	Final version of document
		Fernández, Helge Langseth,	
		Anders L. Madsen, Ana M.	
		Martínez, Andrés Masegosa,	
		Thomas D. Nielsen, Antonio	
		Salmerón	

1 Executive summary

 ${\it Page \ 5 \ of \ 5}$ FP7-ICT 619209 / AMIDST Public

- 2 Introduction
- 3 Inference engine
- 3.1 Variational message Passing (VMP)
- 3.2 Expectation propagation (EP)
- 4 Conclusion