
	FP7-ICT 619209 / AMIDST 23/09/2014 Page 1 of 63	
---	--	---

Project no.: 619209
Project full title: Analysis of Massive Data STreams
Project Acronym: AMIDST
Deliverable no.: D2.1
Title of the deliverable: The AMIDST modelling framework – Initial draft report

Contractual Date of Delivery to the CEC:	30.09.2014
Actual Date of Delivery to the CEC:	30.09.2014
Organisation name of lead contractor for this deliverable:	AAU
Author(s):	Hanen Borchani, Antonio Fernández, Odd Erik Gundersen, Sigve Hovda, Helge Langseth, Anders L. Madsen, Ana M. Martínez, Ramón Martínez, Andrés Masegosa, Thomas D. Nielsen, Antonio Salmerón, Frode Sørmo, Galia Weidl
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:	63
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)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

Abstract:

In this document, we firstly discuss and justify the preliminary probabilistic graphical models for the different application scenarios of the three use-case providers previously identified in Deliverable 1.2. Then, we introduce the AMIDST modelling framework as a general model class that can be applied to solve each of these application scenarios and, potentially, future similar problems in other domains.

Keyword list: AMIDST Modelling framework, application scenarios, preliminary models, data analysis, Bayesian networks, dynamic Bayesian networks, conditional linear Gaussian.