

Supplementary evaluation for the submission “Principled Parallel Mean-Field Inference for Discrete Markov Random Fields”

April 5, 2016

1 Details regarding the datasets

name	variables	factors	degree	states
DBN	920	54160	2	2
GRID	1600	6400	2	2
SEG	230	622	2	2
char.inpaint.	9146	131072	2	2
peop.detect.	20000	98300	50	2
sem.segm.	65636	dense	2+	21

Table 1: Details of the considered graphical models. Average values over all instances.

2 Evaluation in fully sequential setting

For completeness, we evaluated our algorithms on benchmark datasets on a fully sequential setting. The figure below illustrates our results for the grid GRID and segmentation SEG datasets. For the others, results are similar.

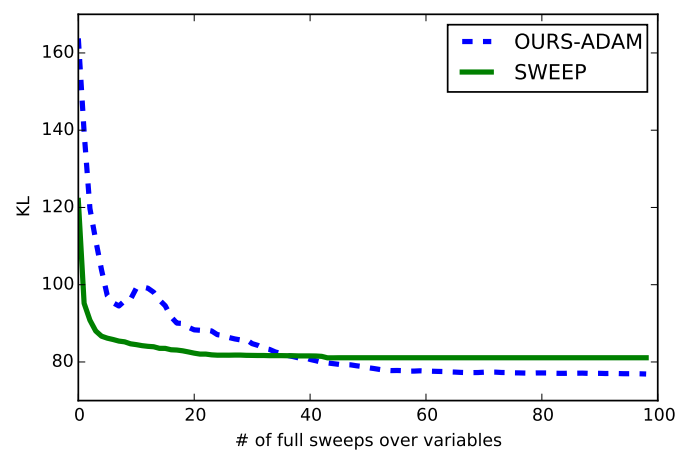


Figure 1: Convergence in sequential settings. SEG dataset.

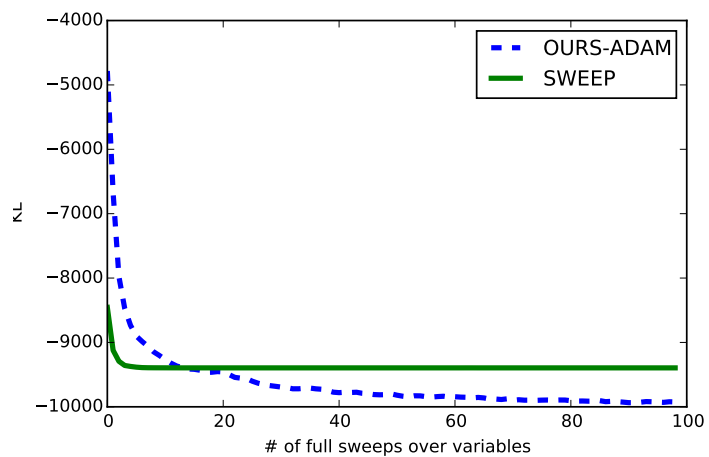


Figure 2: Convergence in sequential settings. GRID dataset.