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with Higher-Order
Terms 3 A set of efficient techniques for including higher-order terms in random fields with dense connectivity, allowing for mean-field Iter-based inference, An adaptation of

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our approach to
product label-
space models for
joint object-stereo
labeling, again
permitting efficient
inference,

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Material 3 Fig.1.
Comparison of
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using matched
energies with
pairwise terms

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only. The left plot shows the performance of mean-eld inference as the spatial standard deviation of the Gaussian pairwise term is varied. The cen-

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based ...

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absorption for all wavelengths of interest. An interference filter may be high-pass, low-pass, bandpass, or band-rejection.. An interference filter consists of multiple thin layers of dielectric

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method provides
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inference is one of

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various parallel
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energy z Given a

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Then we decomposed the

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ELBO into a nice
form under mean
eld assumptions.

1 Problem Setup
Particle filters or
Sequential Monte
Carlo (SMC)
methods are a set
of Monte Carlo
algorithms used
to solve filtering

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problems arising
in signal

processing and

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inference. The

filtering problem

consists of

estimating the

internal states in

dynamical

systems when

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partial observations are made, and random perturbations are present in the sensors as well as in the dynamical system.

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VASER augments
the RNNs based
SBR models with
stochastic latent
variables trained
by both stochastic
and amortized
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inference,
enabling stable
and effective
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inference of a high-level

“objective” of an entire session from the observed clicks. By modeling and quantifying the stochastic latent variables in sessions, VASER is expected to

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We show how these higher-order terms can be formulated such that filter-based inference remains possible. We demonstrate our techniques on joint stereo and object labelling

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variational inference is one of the most popular approaches to inference in discrete random fields. Standard mean-field optimization is based on coordinate descent and in

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many situations
can be
impractical. Thus,
in practice,
various parallel
techniques are
used, which either
rely

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to Gibbs free energy z . Given a disjoint clustering, $\{C_1, \dots, C_l\}$, of all variables z . Let z Mean-field free energy z . Will never equal to the exact Gibbs free energy no matter what clustering is used, but it does always

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Approximation To
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called mean field

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