

IE598: Syllabus

Sewoong Oh, University of Illinois Urbana-Champaign, Spring 2015

Here is a rough syllabus (changes are possible, and suggestions/feedback are welcome).

week 1	Introduction, graphical models
week 2	Markov random field, factor graphs, Bayesian network
week 3	Perfect maps, chordal graphs, Gaussian graphical models
week 4	Elimination algorithm, sum-product algorithm
week 5	Forward-backward algorithm, inference on factor graphs
week 6	Min-sum algorithm, Gaussian BP (Allerton conference)
week 7	Mid-term quiz, Kalman filtering
week 8	Junction tree algorithm, loopy BP
week 9	Variational methods
week 10	MCMC and particle method
week 11	Learning in graphical models
week 12	Learning in graphical models
week 13	No lecture. Thanksgiving break.
week 14	(Thanks Giving)
week 15	TBA
week 16	TBA

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