

# Contents

A: Graphical Models (Introduction) . . . . .	1
B: Markov Chains and Hidden Markov Models . . . . .	22
D: Conditional Independence and Factorization . . . . .	56
E: The Elimination Algorithm . . . . .	91
F: Probability Propagation and Factor Graphs . . . . .	110
F: The Junction Tree Algorithm . . . . .	139
G: Linear Classification . . . . .	173
H: Completely Observed Graphical Models . . . . .	204
I: The EM Algorithm . . . . .	225
J: The Exponential Family and Generalized Linear Models . . . . .	231
K: Sampling Methods . . . . .	248