Index
hypertree, 128, 147
hypertree MSDAG, 132, 147
I-map, 63, 180
i-message, 118
in-degree, 26
incident, 25
induced dependence, 70, 78, 128
interaction, 147
interface, 118
interface graph, 219
internal node, 26
junction tree, 57, 174
junction tree as I-map, 71
junction tree representation, 94
leaf, 26, 100
link, 25
linkage, 155
linkage tree, 144, 155, 175
LJF, 176
locally consistent, 188
logic sampling, 33
loop cutset conditioning, 31, 209
marginal, 21, 92
marginalization, 22
marginalization intractability, 23
marginalized out, 22
marginally independent, 27
Markovian, 275
massive message passing, 34
maximal cluster tree, 81
maximal spanning tree, 82
merge, 154
message, 30, 43, 44
message passing, 34, 40, 118
moral graph, 70, 147, 148
MSBN, 110, 134
MSDAG, 132
multiagent, 9, 108, 112
multiply connected, 26, 42
multiply sectioned Bayesian network, 110, 134
negation rule, 22
node, 25
nondegenerate cycle, 42, 47, 123
normalize, 104
numerator, 91
O(), 23
observable, 5
open path, 64
order independent, 91
out-degree, 26
parent, 25
path, 26
path length, 26
posterior, 22
potential, 43, 44, 48–50, 56–58, 88, 184, 187
principal, 1
prior, 22
privacy, 146
private node, 226
private variable, 219
product of potential, 89
product rule, 22
projection, 89
public node, 226
public variable, 219
quotient, 91
quotient of potential, 90
raw space complexity, 154, 282
restriction, 149
reversibility, 92
root, 26, 100
separation, 64
separator, 41, 81
simple path, 26
simplicial, 74
skeleton, 70
span, 26
state, 4
stationary, 275
stochastic simulation, 33
subdomain, 118
subgraph, 26, 129, 131
sum rule, 21
supportive, 98, 188
system potential, 96, 104
tail-to-tail, 65, 66
temporal dependence, 274
terminal node, 26
total universe, 117
tree, 26
u-separation, 65, 79
undirected cycle, 26
undirected graph, 25
uniform potential, 96, 183, 187
updating intractability, 23
weight, 81
zero-consistent, 90