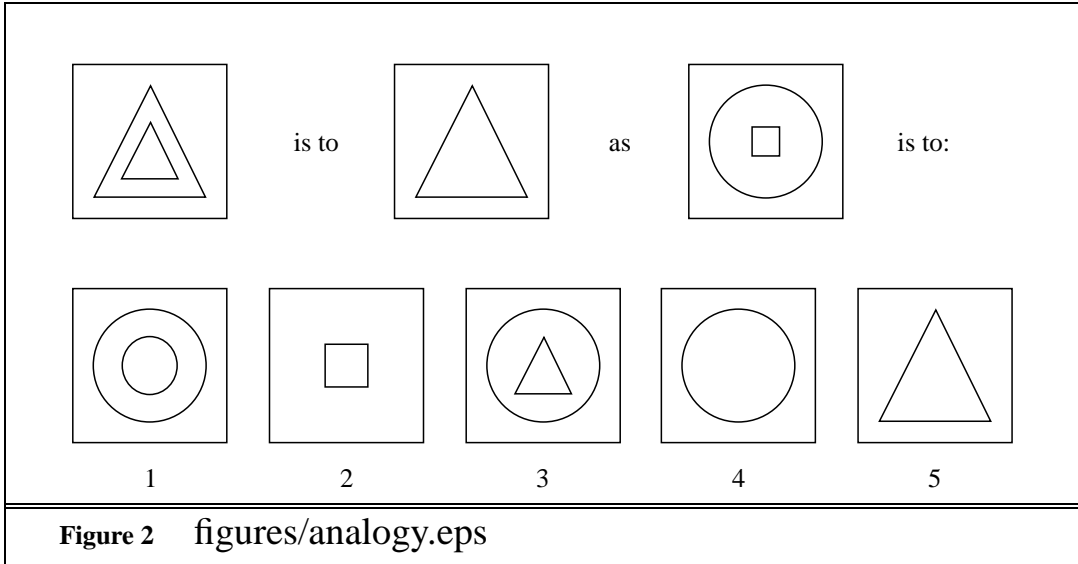


Figure 1 figures/neuron.eps

Some text



Some text

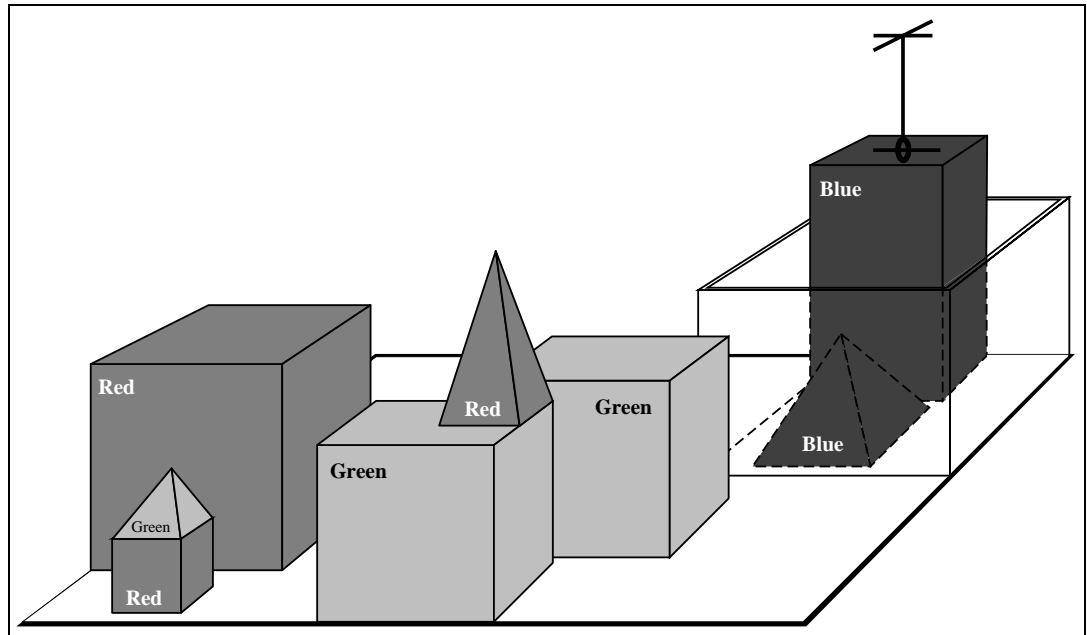


Figure 3 figures/blocks-world.eps

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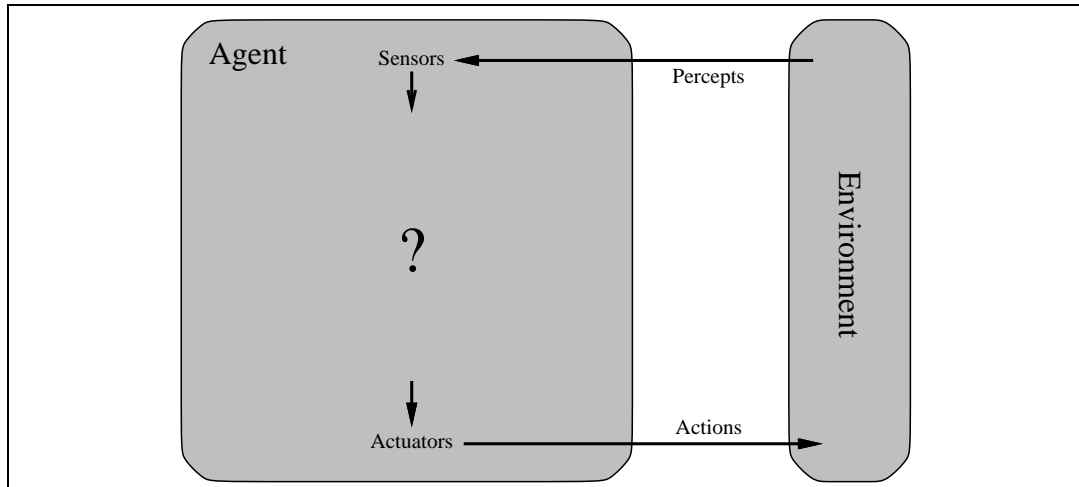
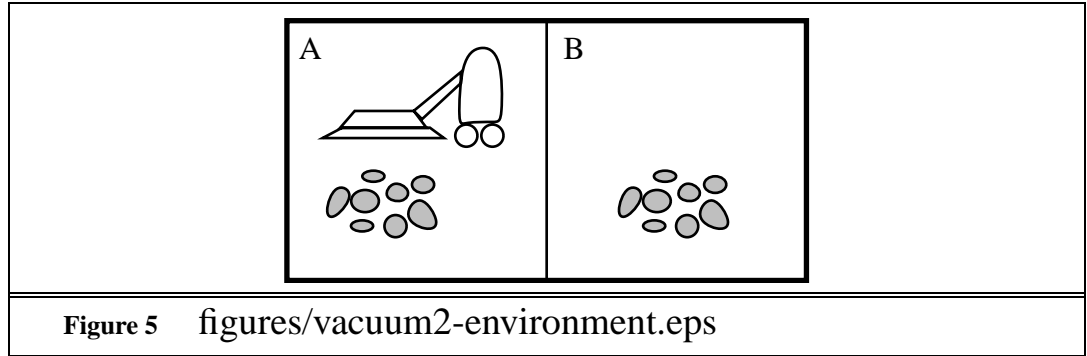
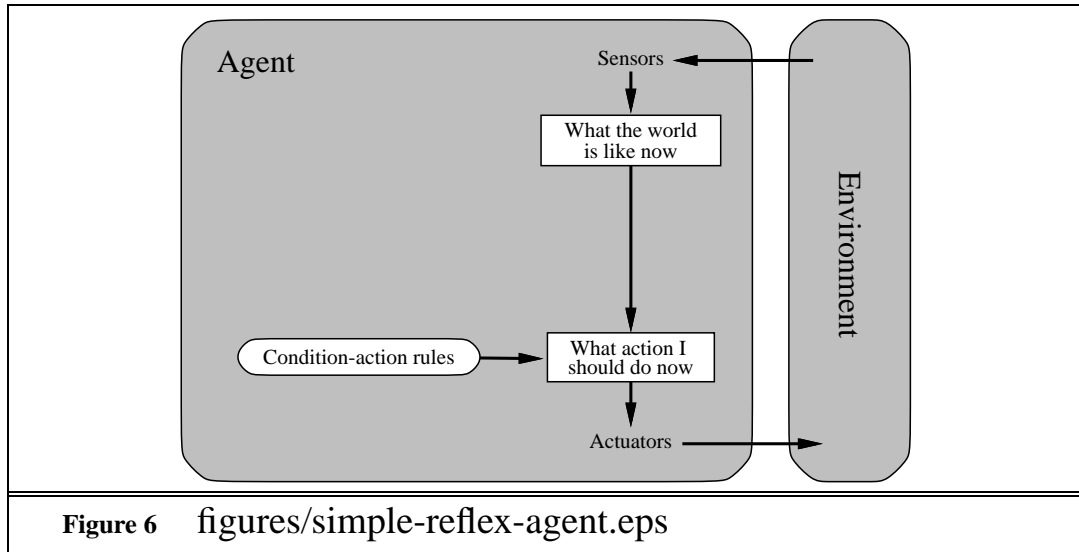


Figure 4 figures/agent-environment.eps

Some text



Some text



Some text

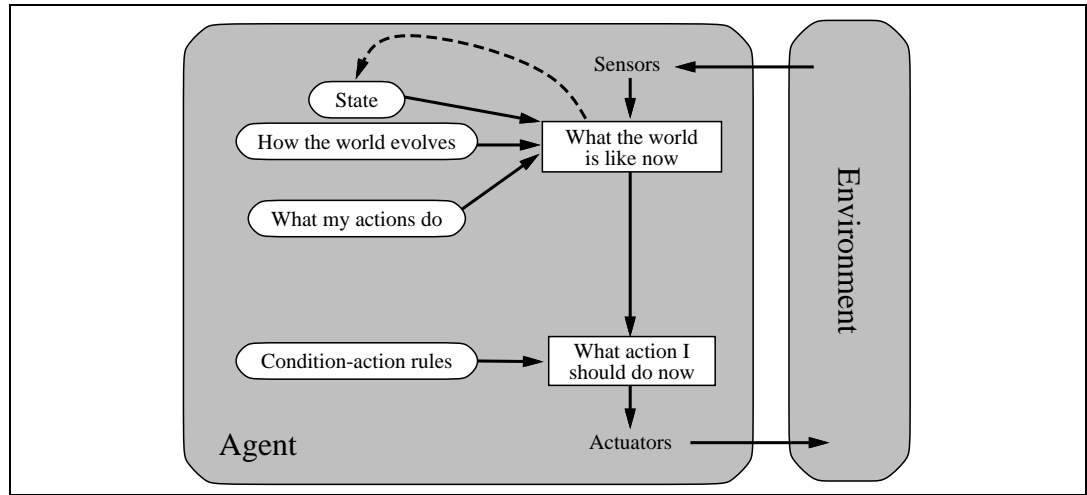


Figure 7 figures/reflex+state-agent.eps

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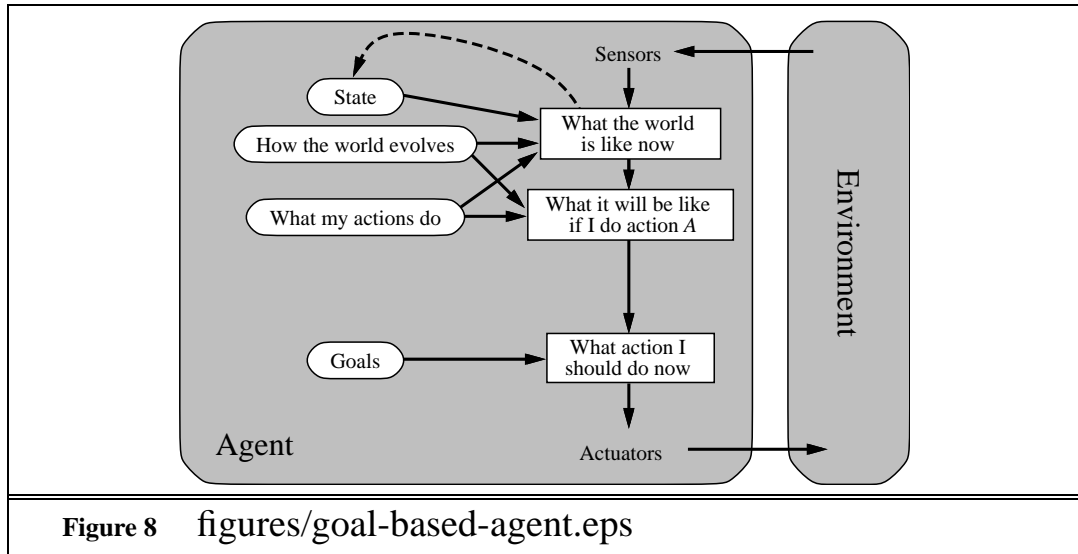


Figure 8 figures/goal-based-agent.eps

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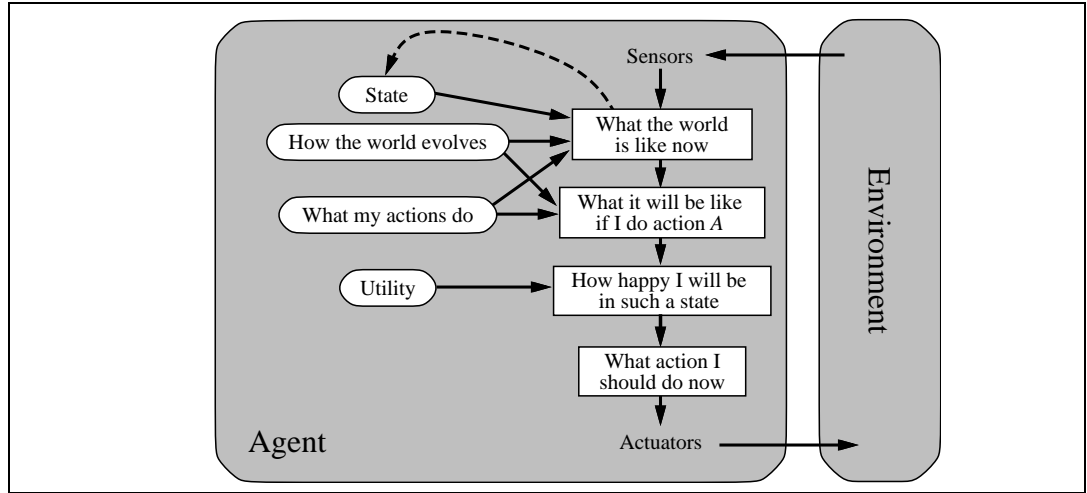
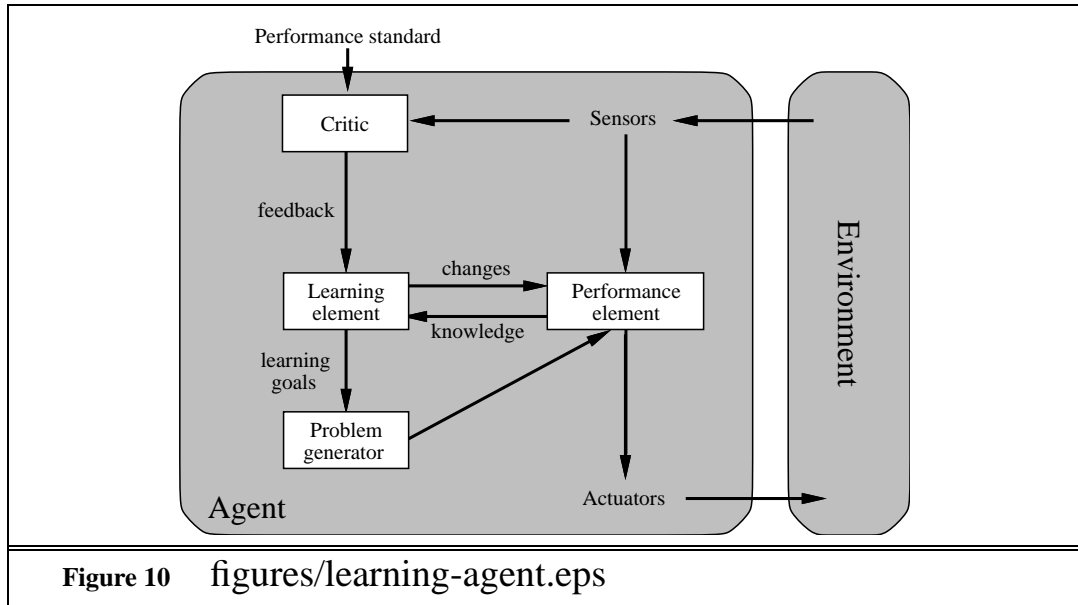


Figure 9 figures/utility-based-agent.eps

Some text



Some text

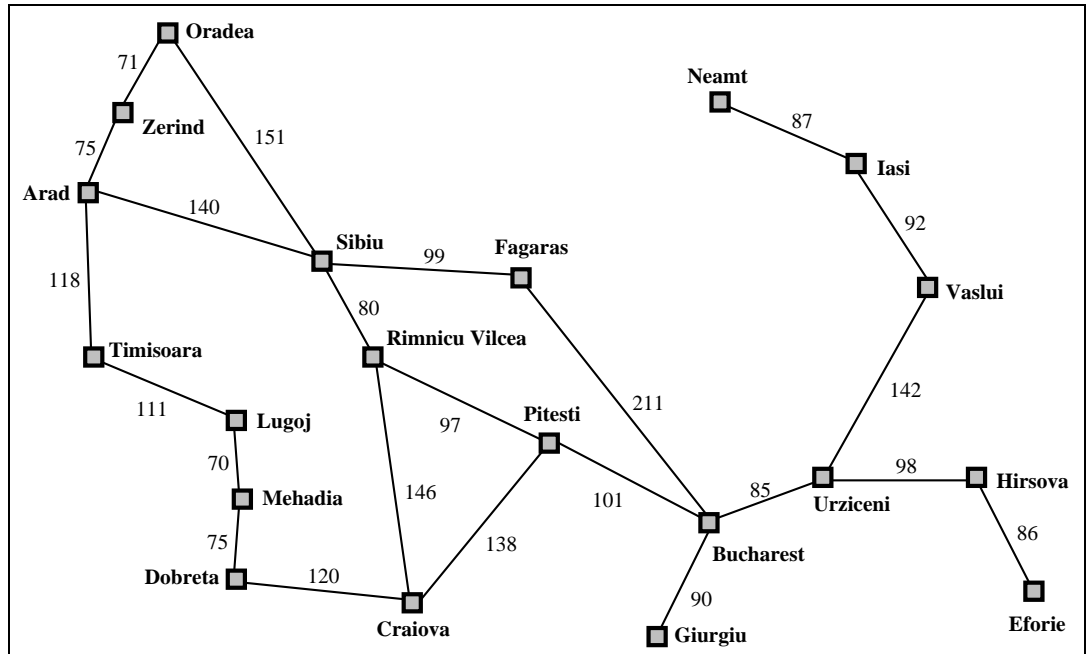


Figure 11 figures/romania-distances.eps

Some text

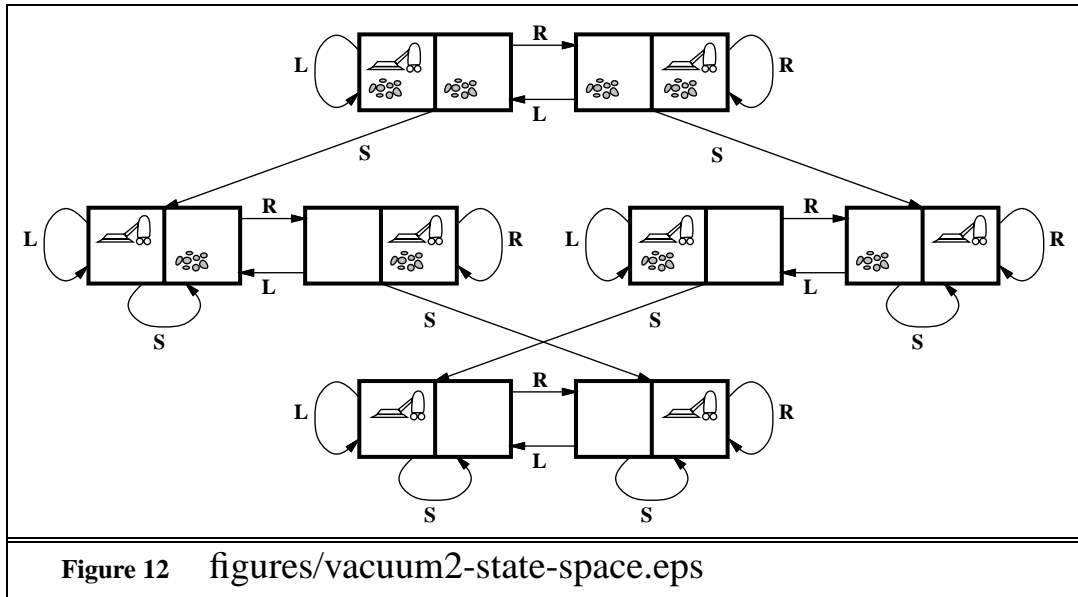
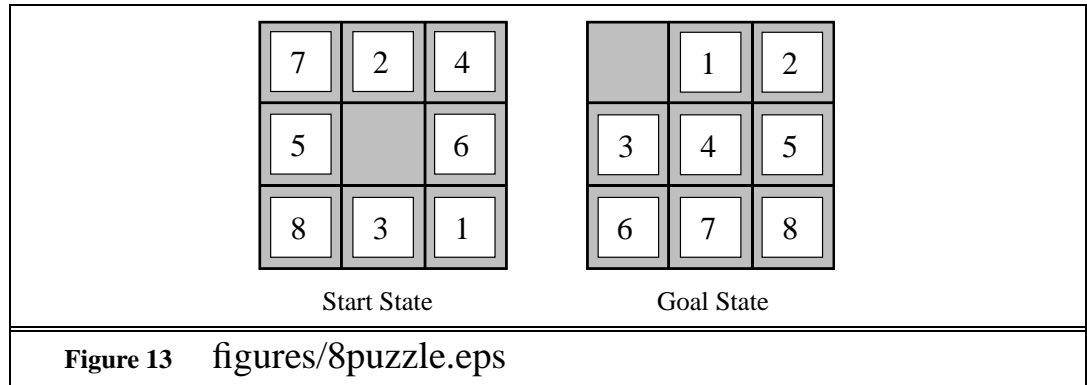


Figure 12 figures/vacuum2-state-space.eps

Some text



Some text

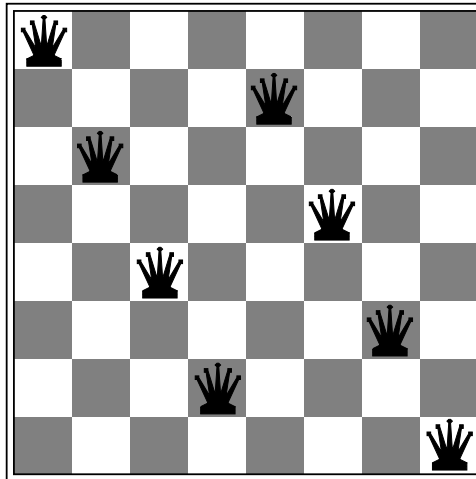
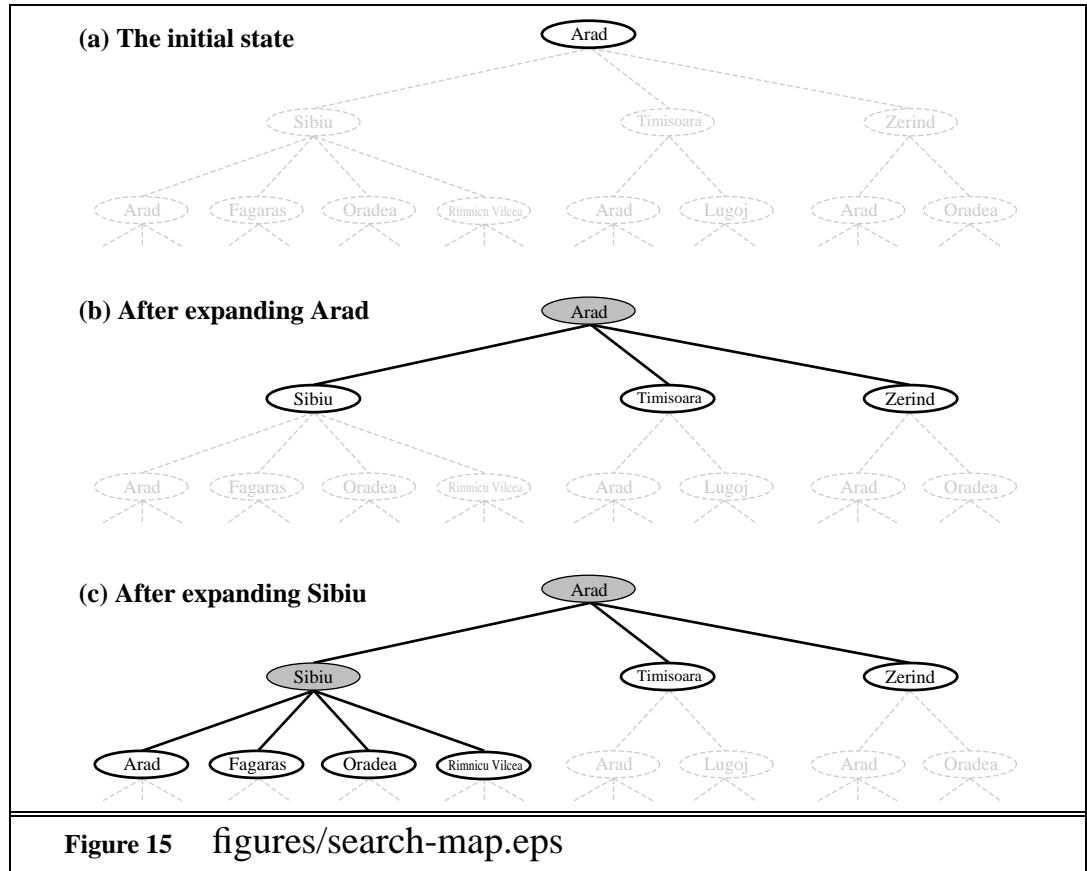
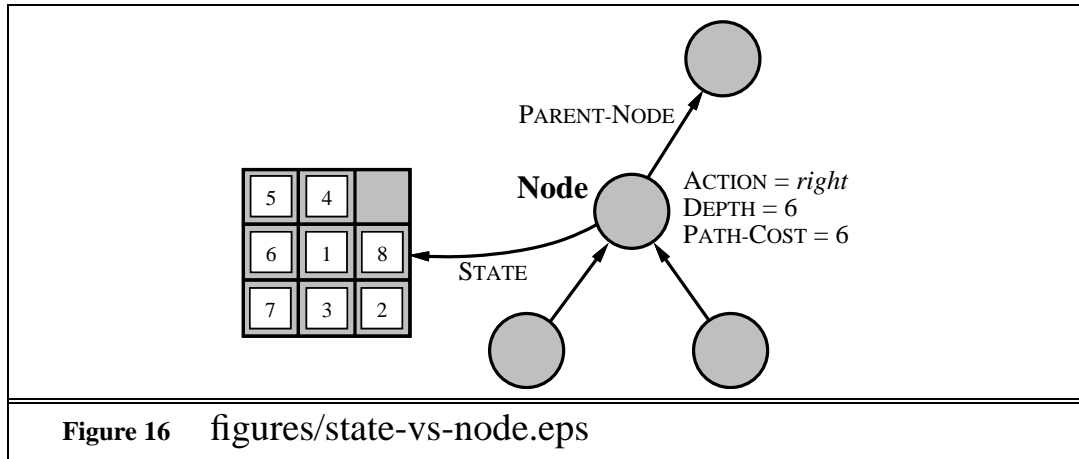


Figure 14 figures/8queens.eps

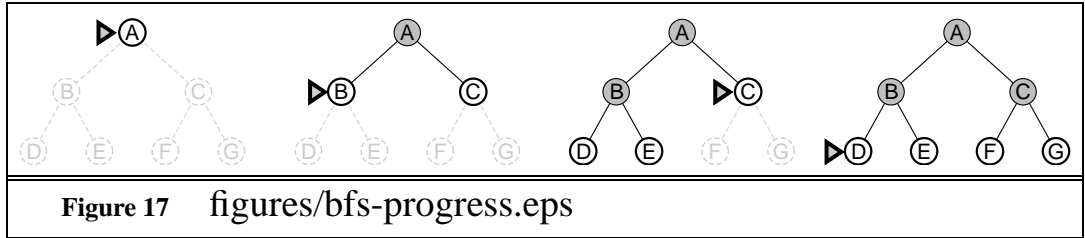
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Some text



Some text



Some text

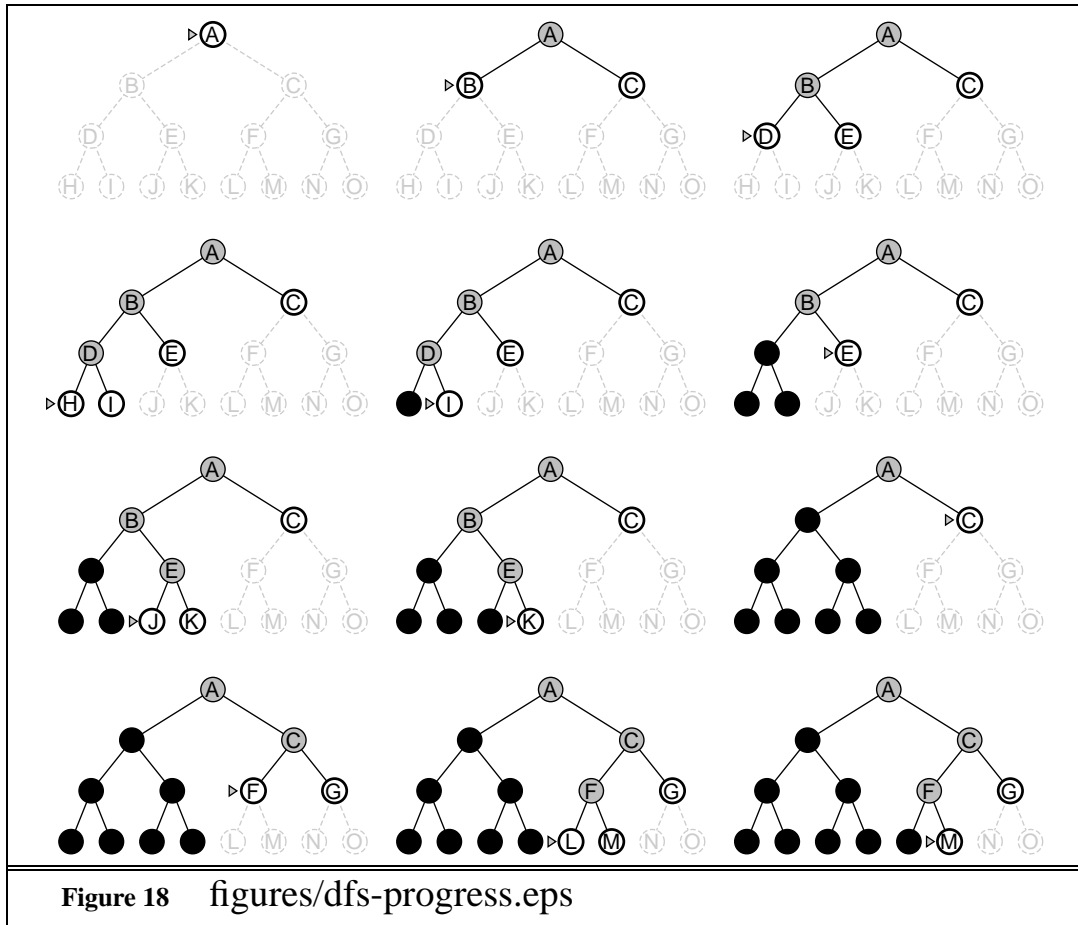
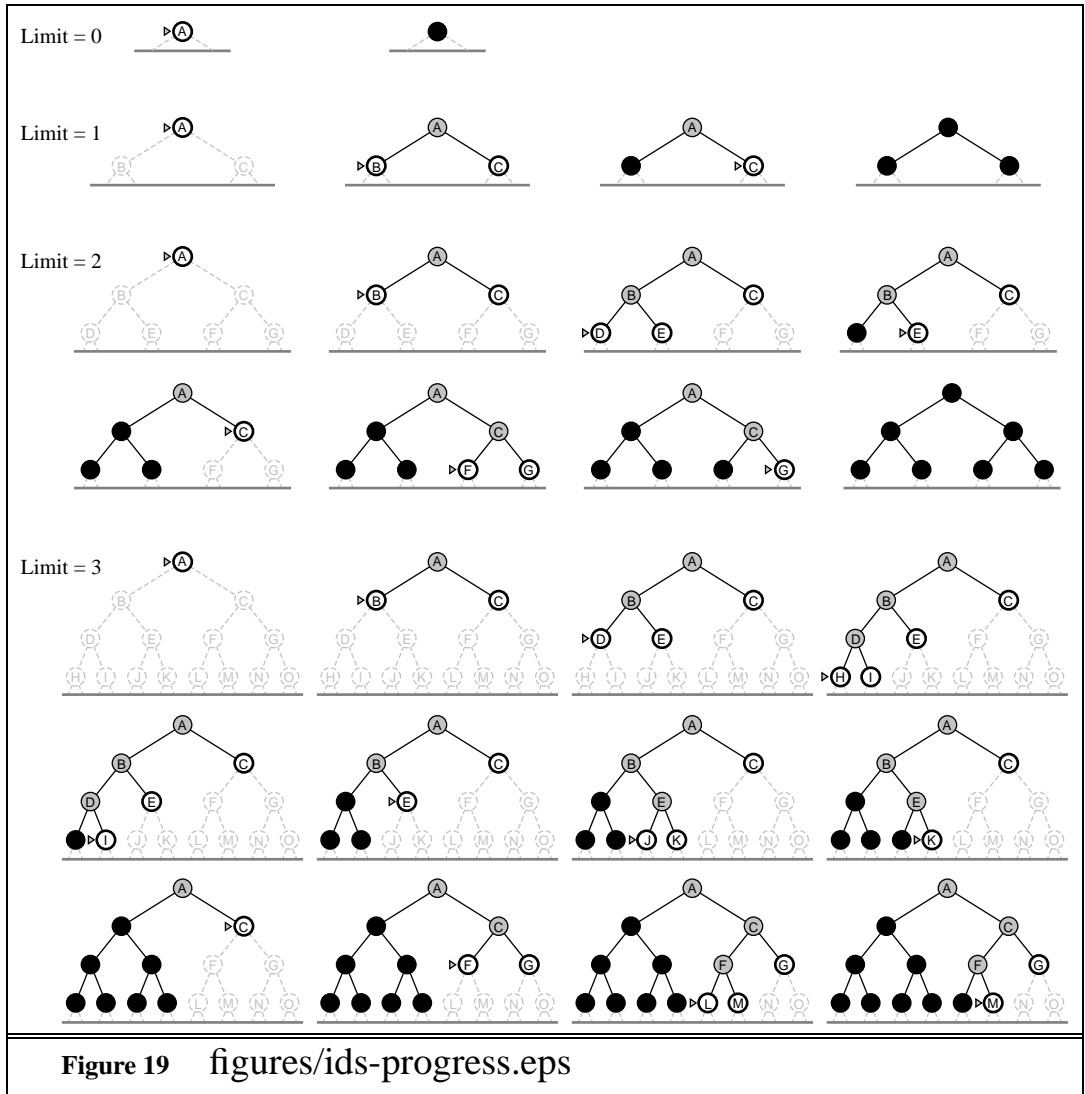


Figure 18 figures/dfs-progress.eps

Some text



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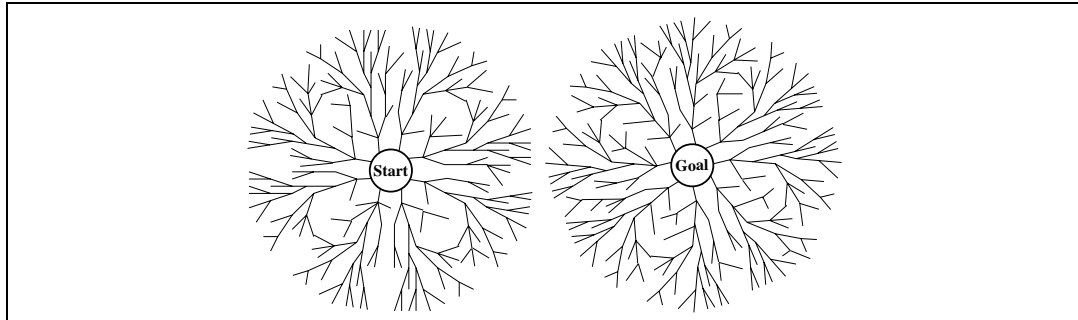
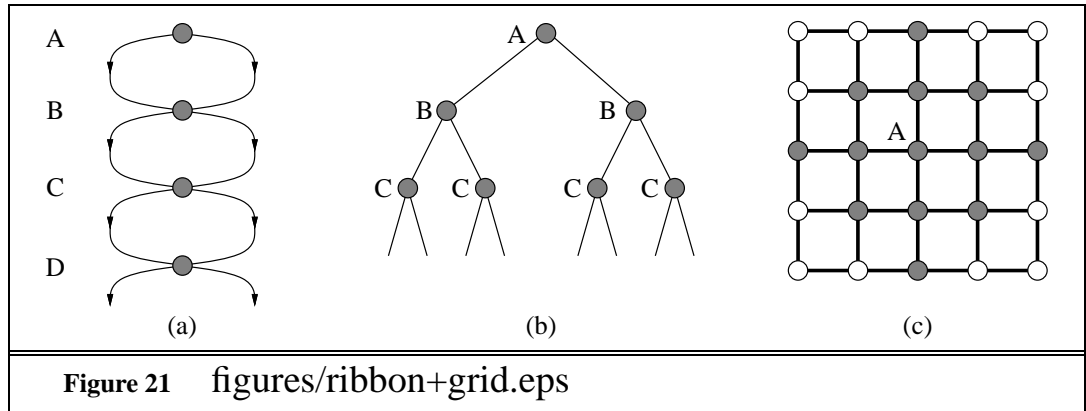
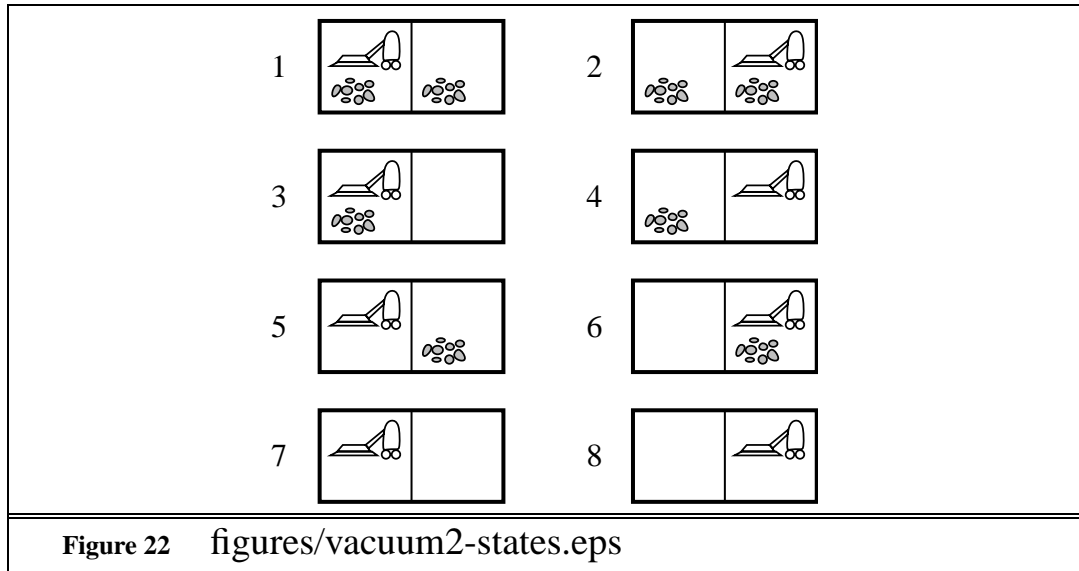


Figure 20 figures/bidirectional.eps

Some text



Some text



Some text

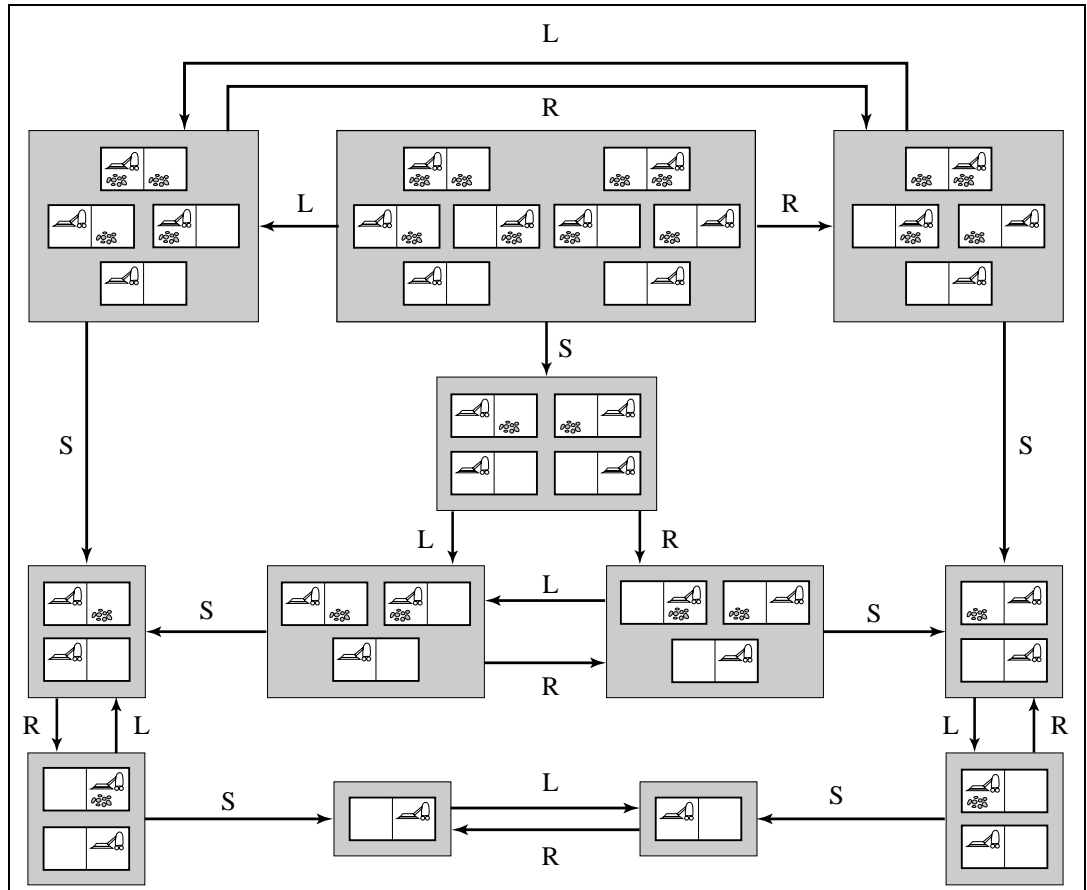


Figure 23 figures/vacuum2-sets.eps

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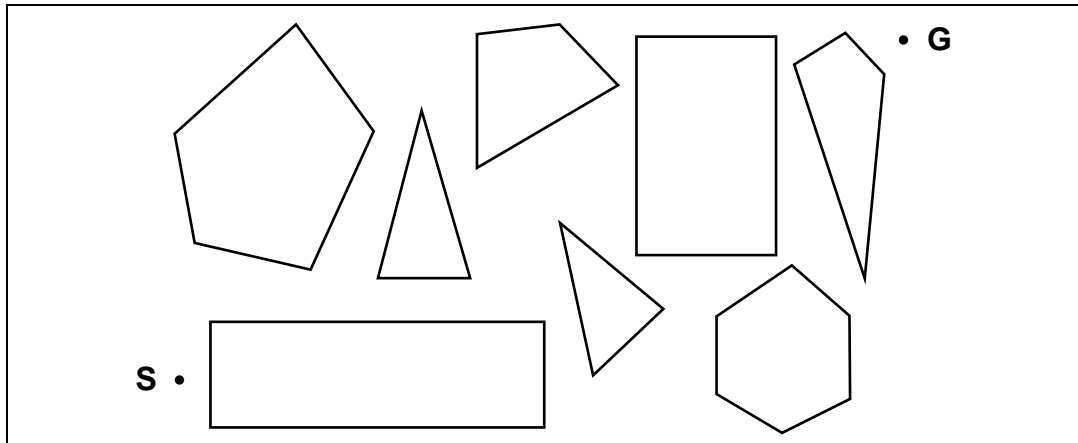
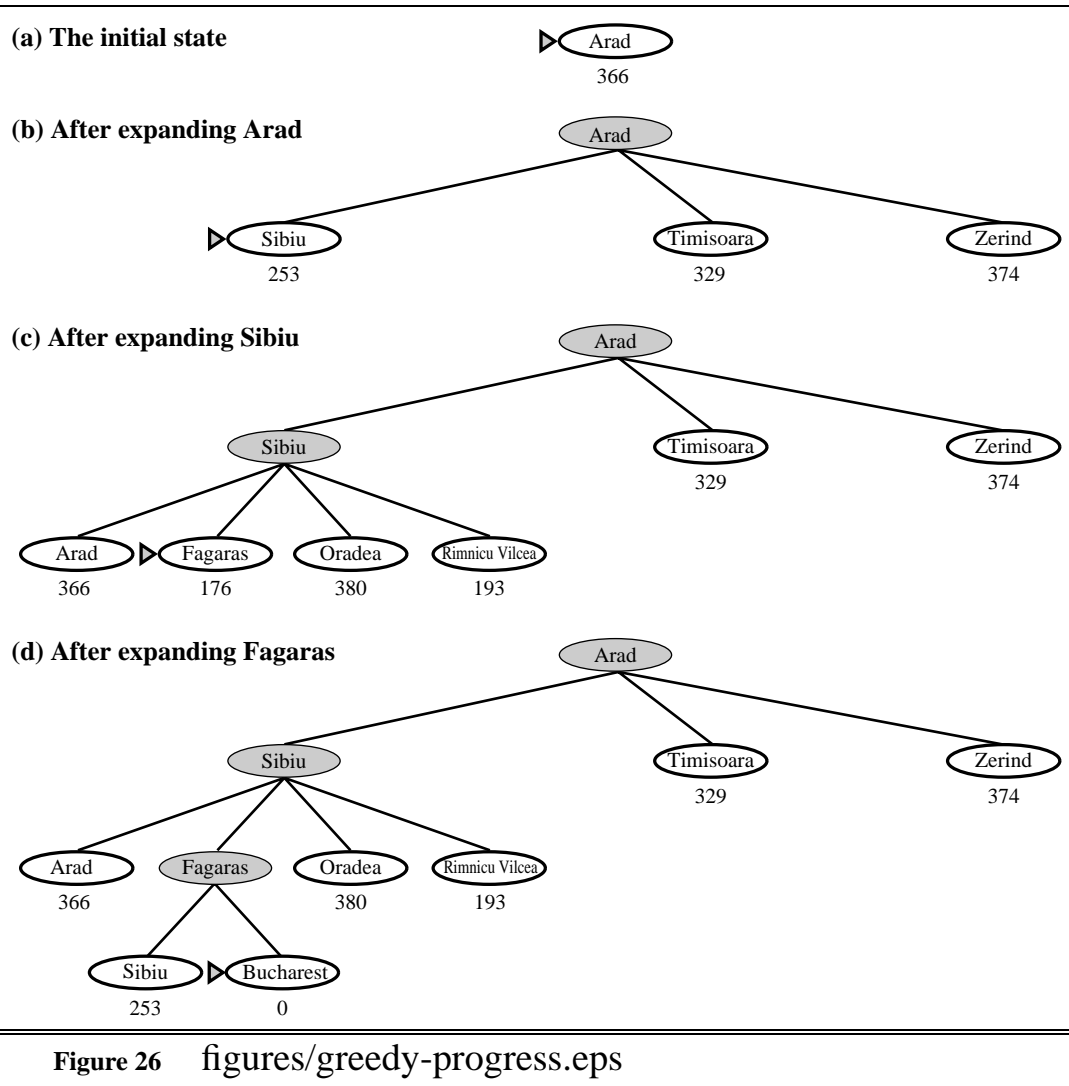


Figure 24 figures/geometric-scene.eps

Some text

Arad	366	Mehadia	241
Bucharest	0	Neamt	234
Craiova	160	Oradea	380
Dobreta	242	Pitesti	100
Eforie	161	Rimnicu Vilcea	193
Fagaras	176	Sibiu	253
Giurgiu	77	Timisoara	329
Hirsova	151	Urziceni	80
Iasi	226	Vaslui	199
Lugoj	244	Zerind	374

Figure 25 figures/romania-sld.eps



SOME text

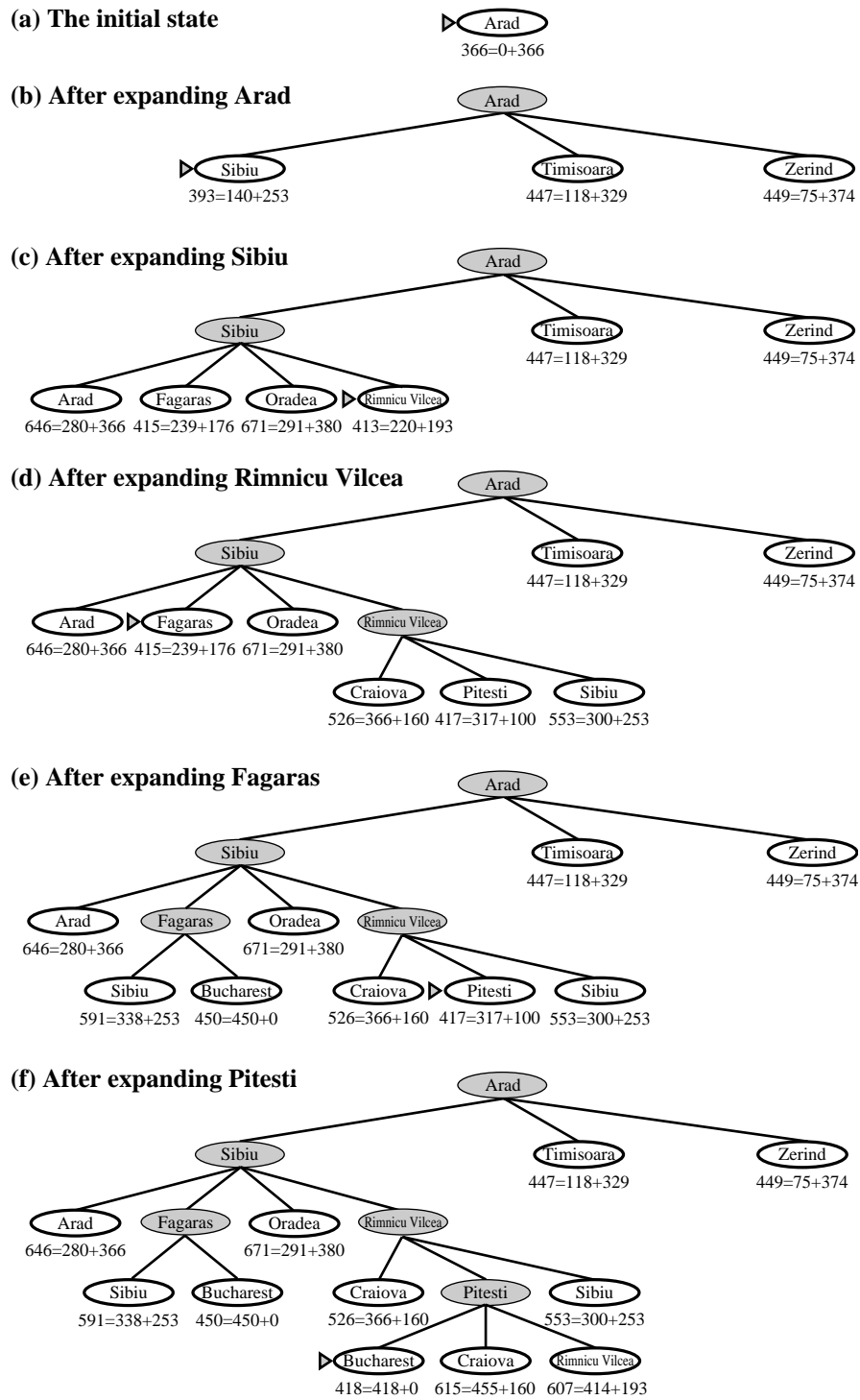


Figure 27 figures/astar-progress.eps

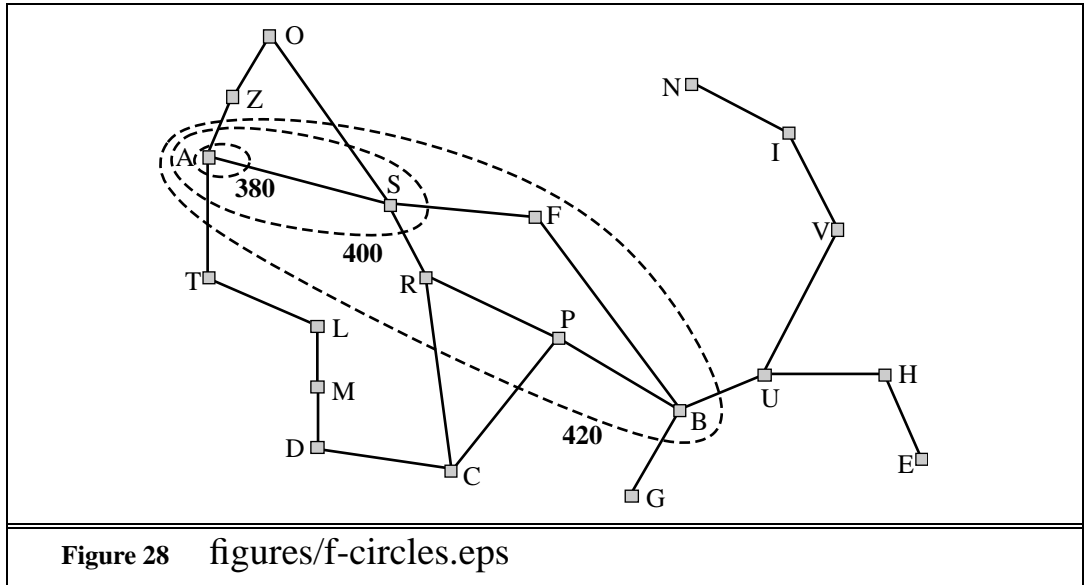


Figure 28 figures/f-circles.eps

SOme text

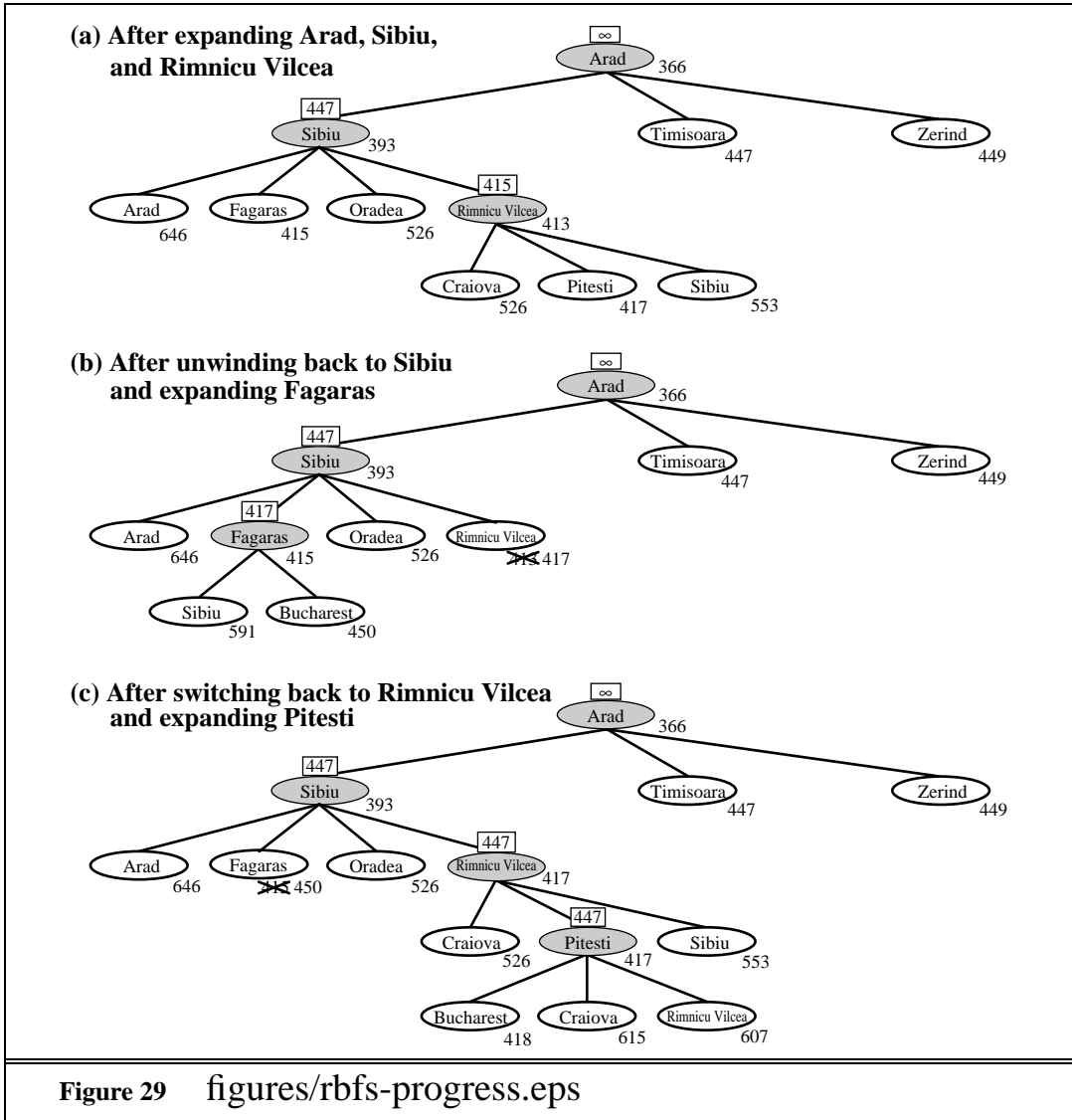
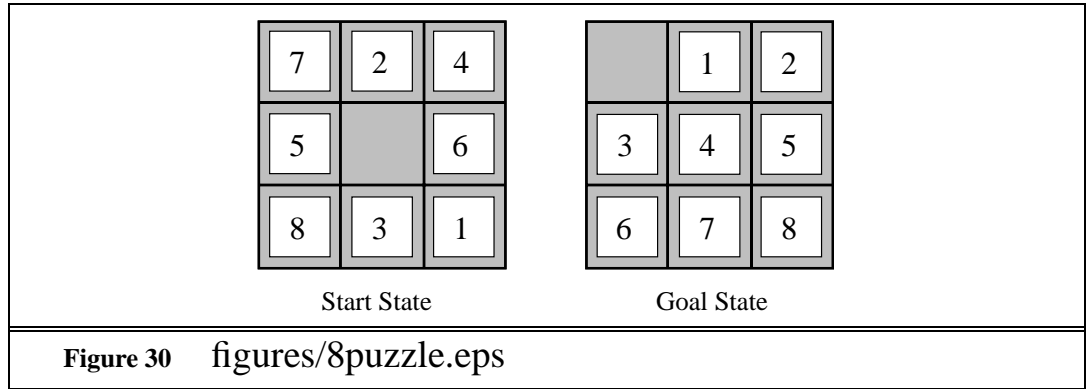
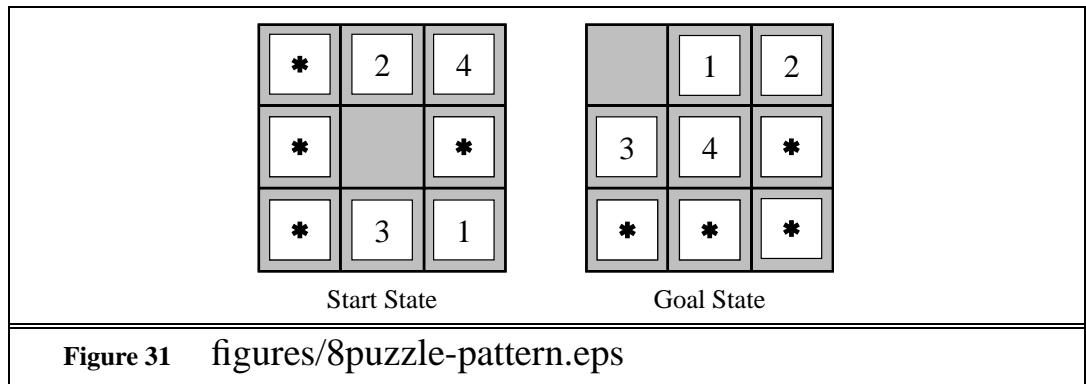


Figure 29 figures/rbfs-progress.eps

Some text



Some text



Some text

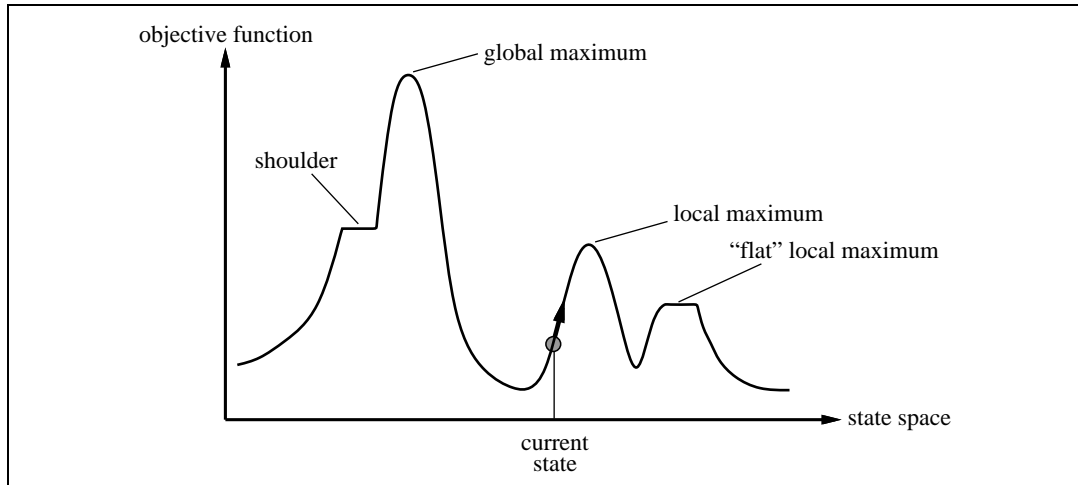
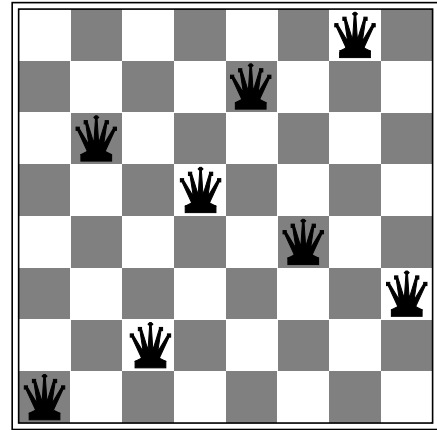


Figure 32 figures/hill-climbing.eps

Some text

18	12	14	13	13	12	14	14
14	16	13	15	12	14	12	16
14	12	18	13	15	12	14	14
15	14	14	♚	13	16	13	16
♚	14	17	15	♚	14	16	16
17	♚	16	18	15	♚	15	♚
18	14	♚	15	15	14	♚	16
14	14	13	17	12	14	12	18

(a)



(b)

Figure 33 figures/8queens-successors.eps + figures/8queens-local-minimum.eps

Some text

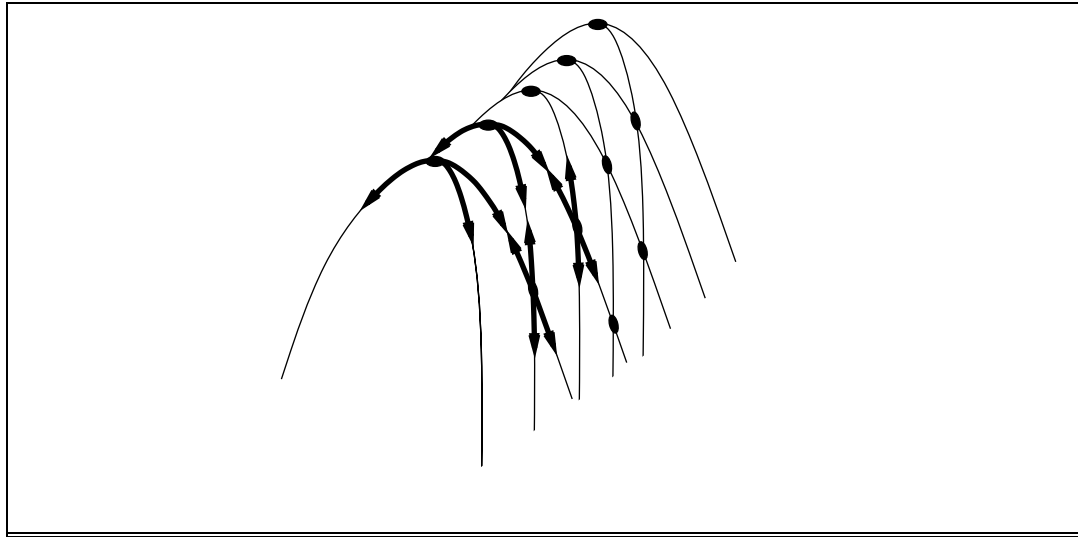
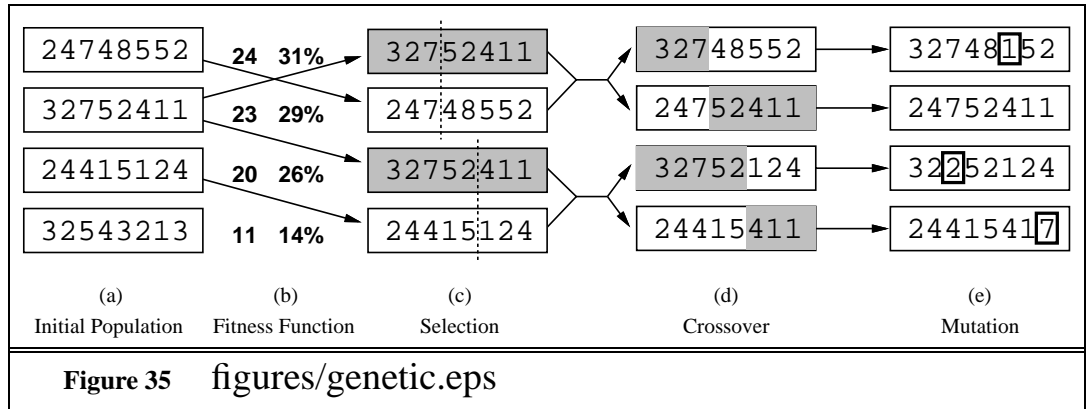
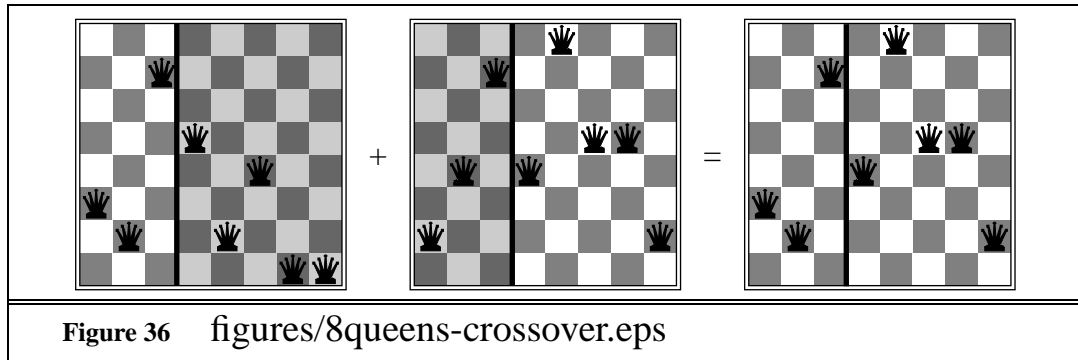


Figure 34 figures/ridge.eps

Some text



Some text



Some text

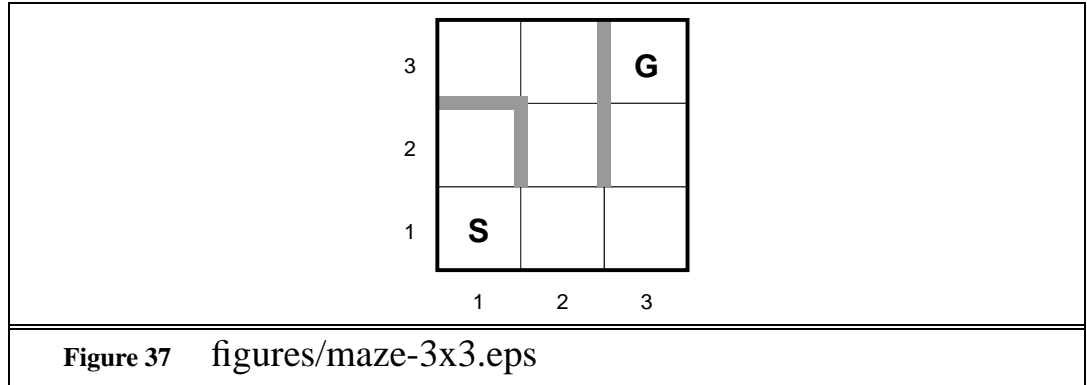
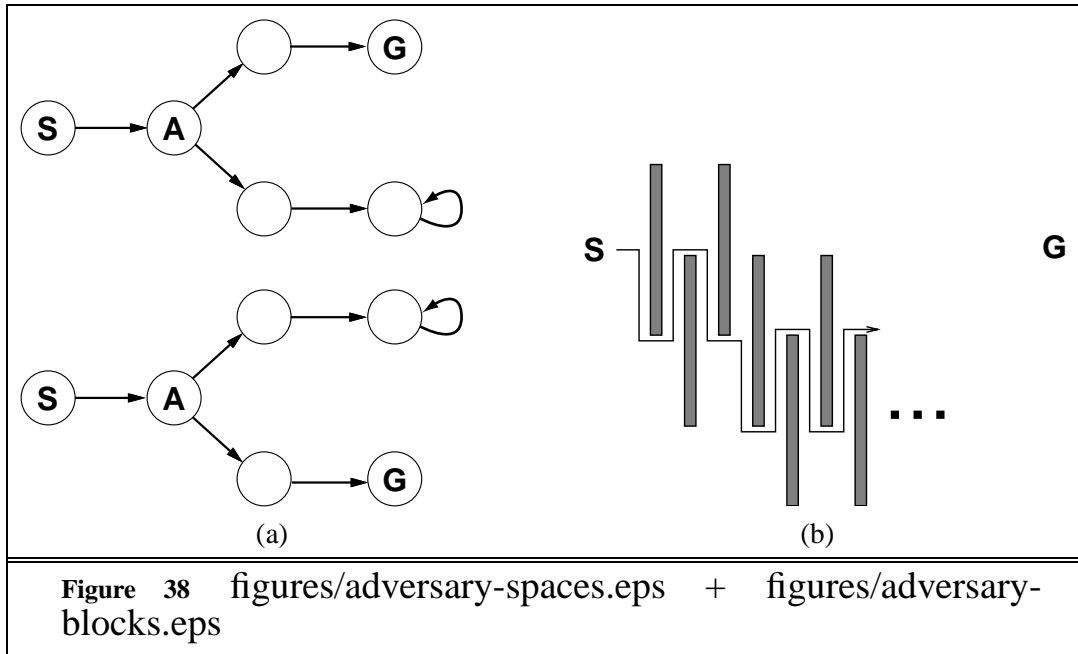


Figure 37 figures/maze-3x3.eps

Some text



SOME text

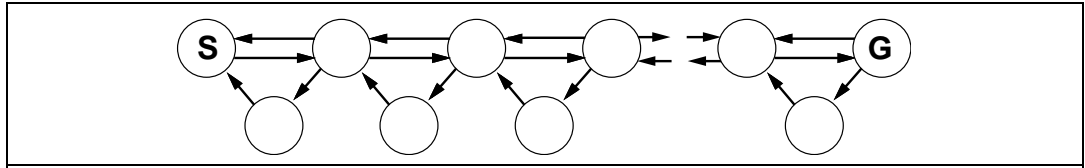
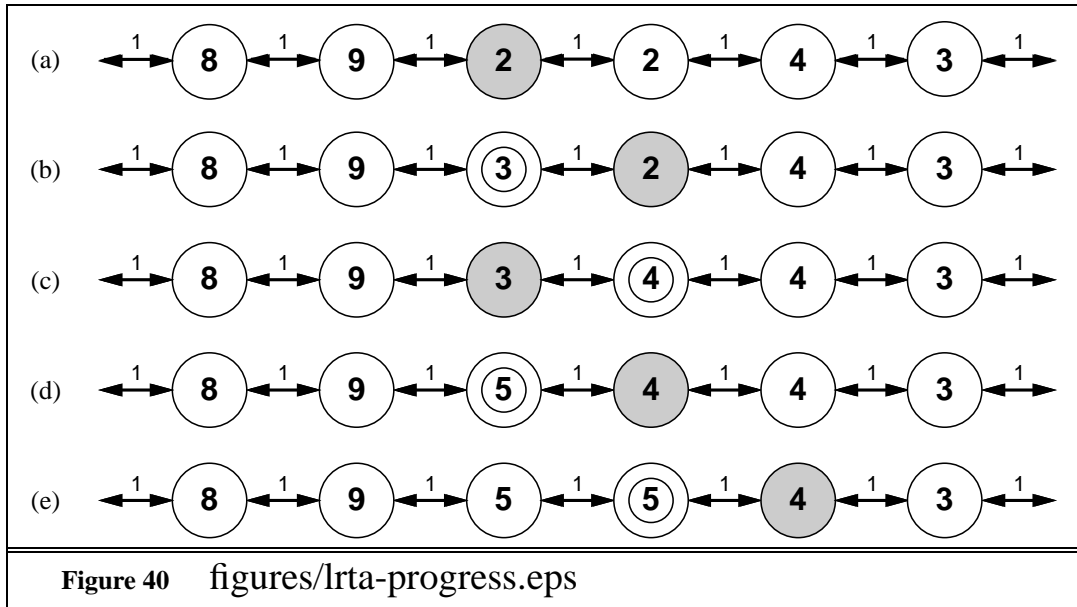
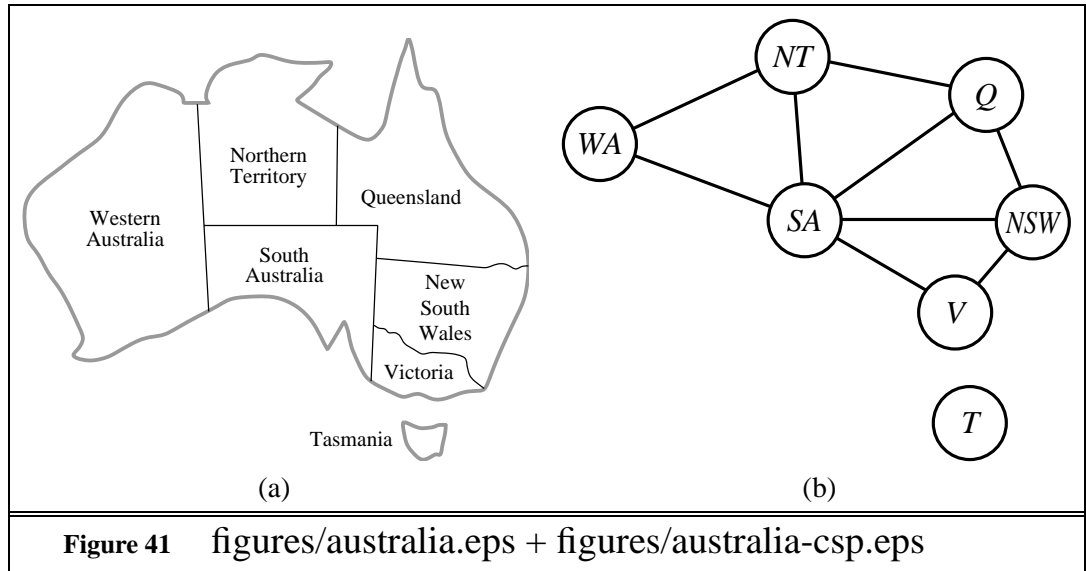


Figure 39 figures/quicksand.eps

Some text



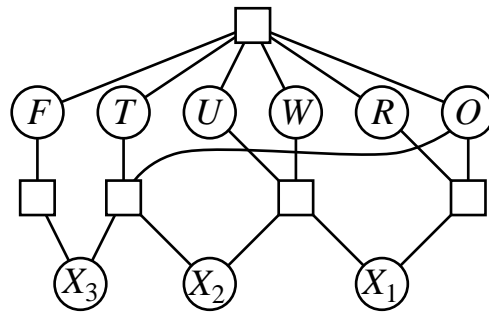
Some text



Some text

$$\begin{array}{r}
 T W O \\
 + T W O \\
 \hline
 F O U R
 \end{array}$$

(a)



(b)

Figure 42 figures/cryptarithmic.eps

Some text

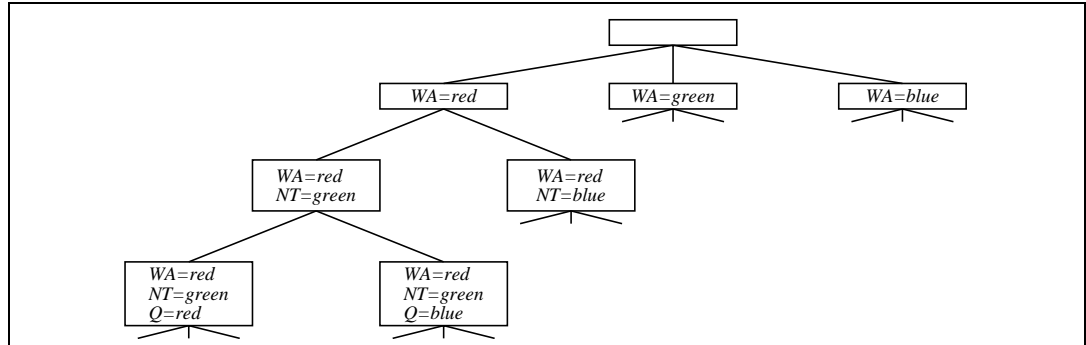


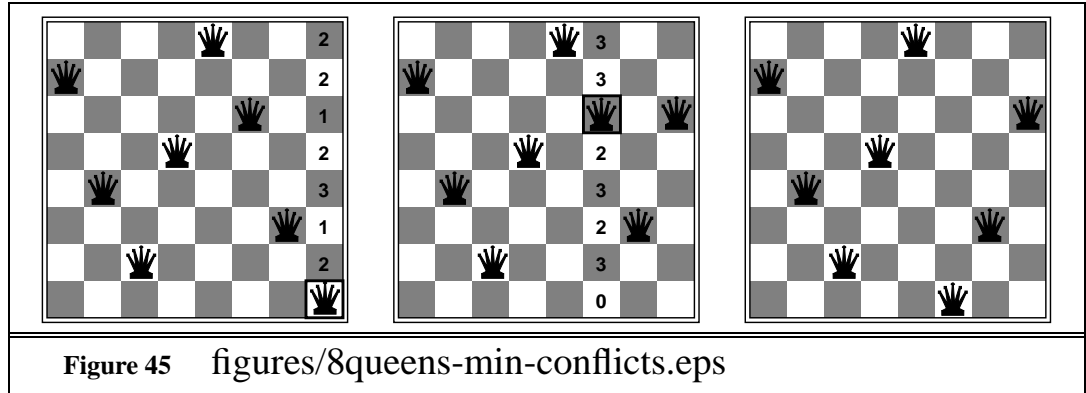
Figure 43 figures/australia-search.eps

Some text

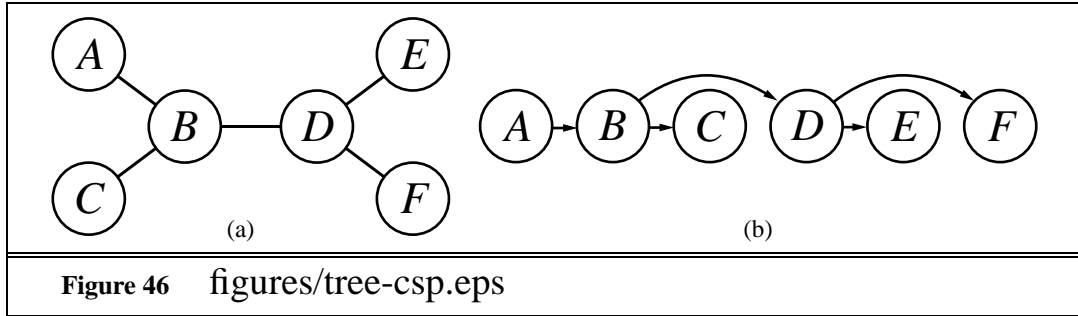
	WA	NT	Q	NSW	V	SA	T
Initial domains	R G B	R G B	R G B	R G B	R G B	R G B	R G B
After $WA=red$	Ⓡ	G B	R G B	R G B	R G B	G B	R G B
After $Q=green$	Ⓡ	B	Ⓢ	R B	R G B	B	R G B
After $V=blue$	Ⓡ	B	Ⓢ	R	Ⓟ		R G B

Figure 44 figures/australia-fc.eps

Some text



Some text



Some text

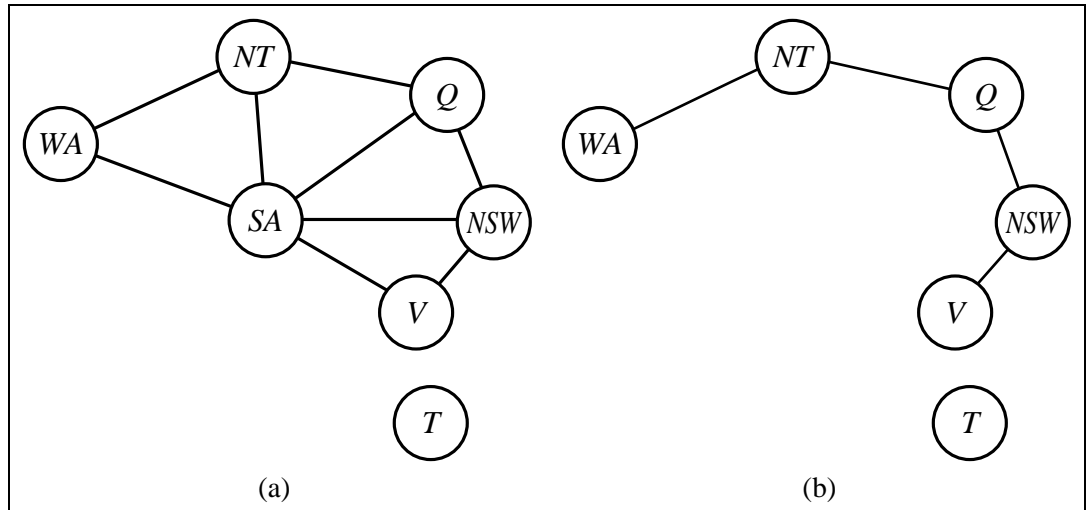
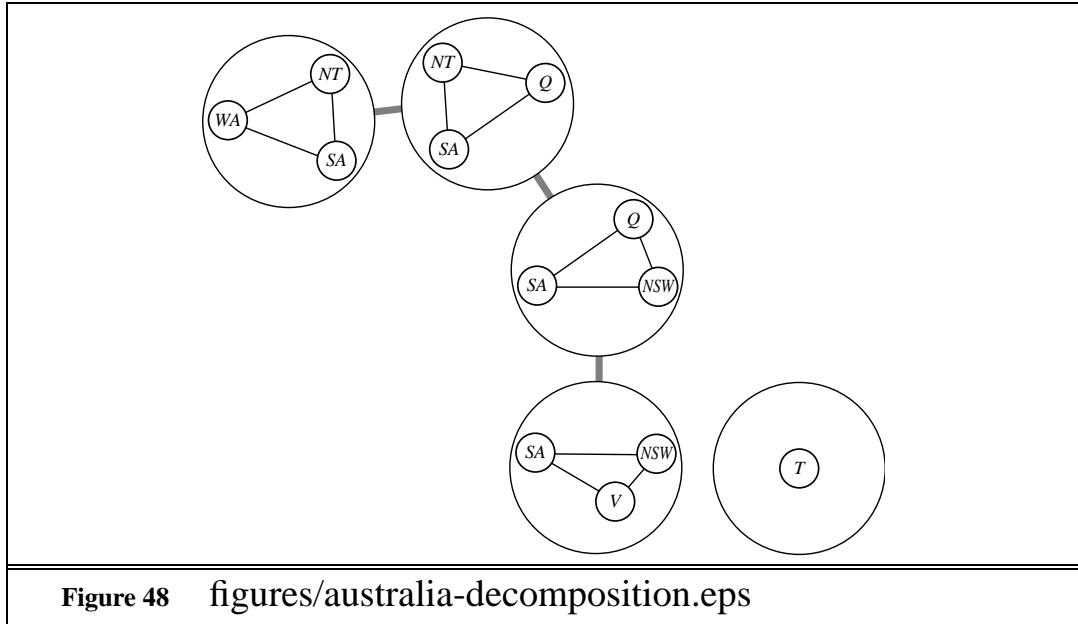
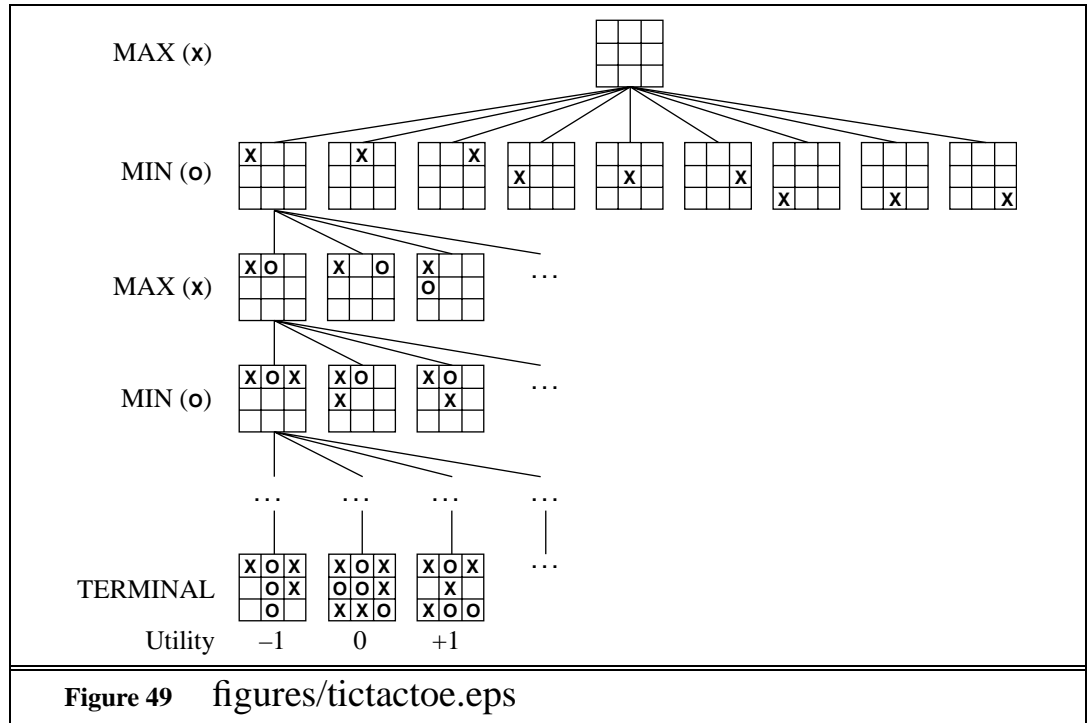


Figure 47 figures/australia-csp.eps + figures/australia-tree.eps

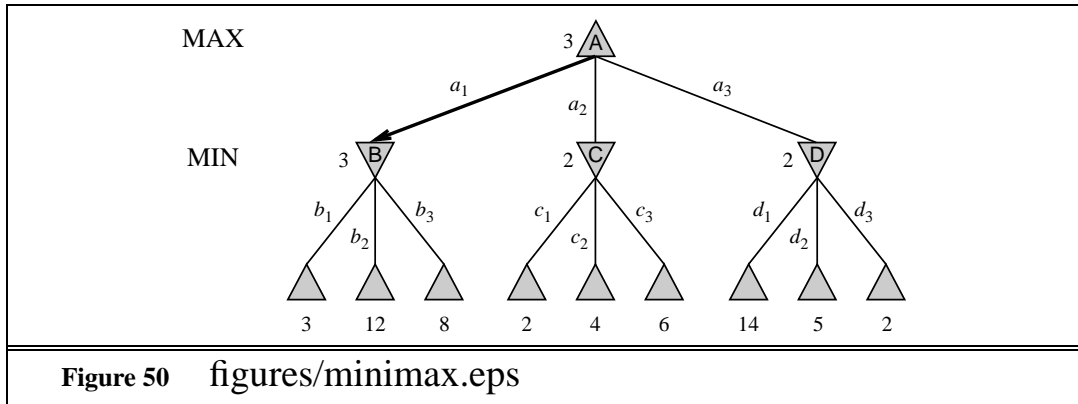
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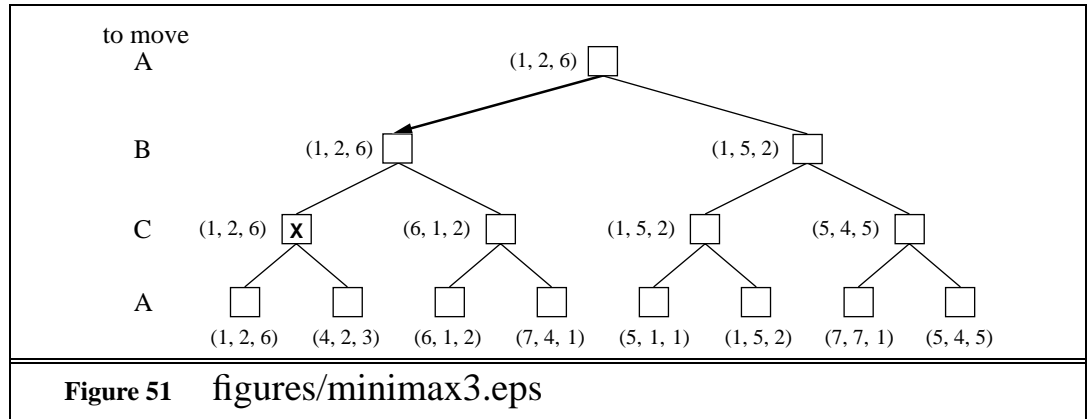
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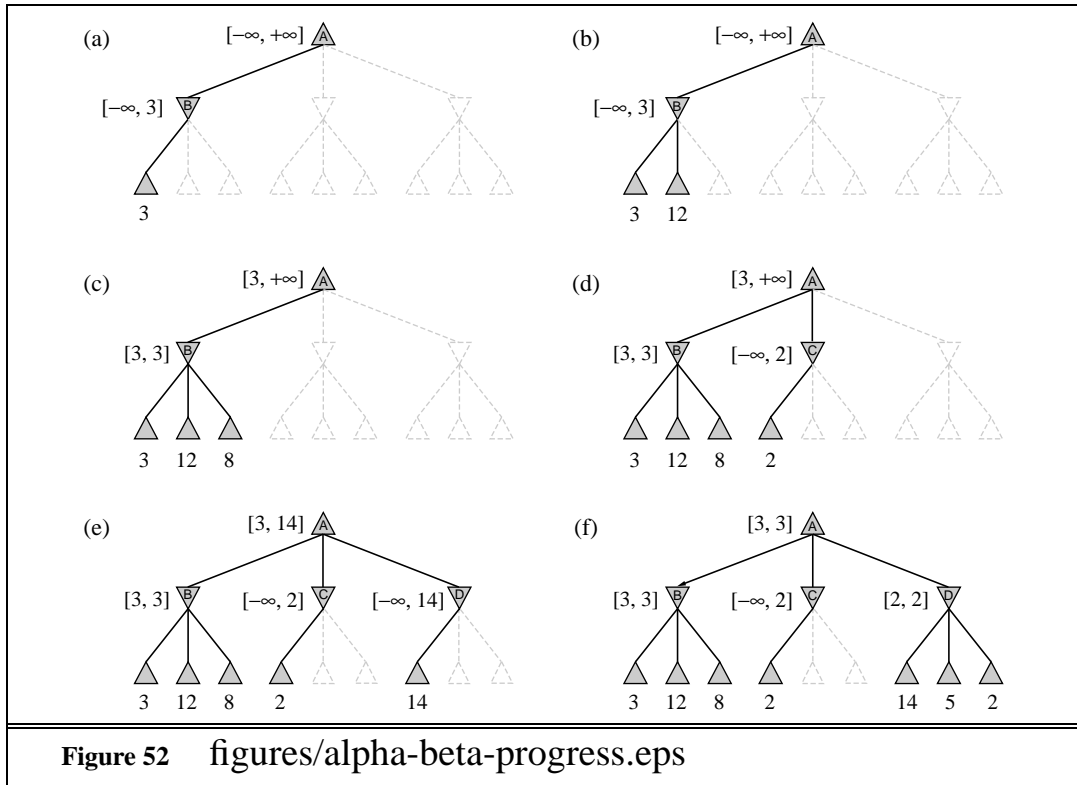
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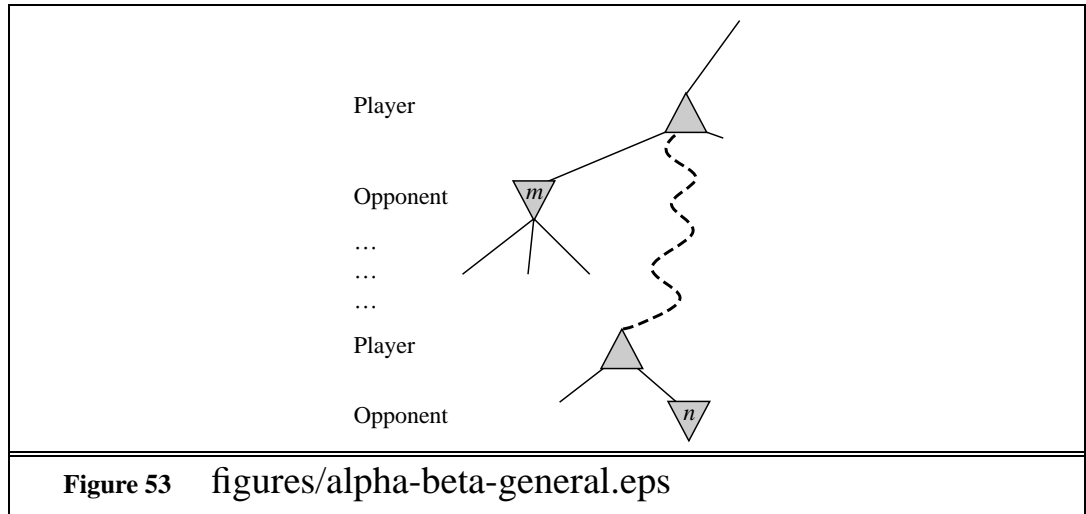
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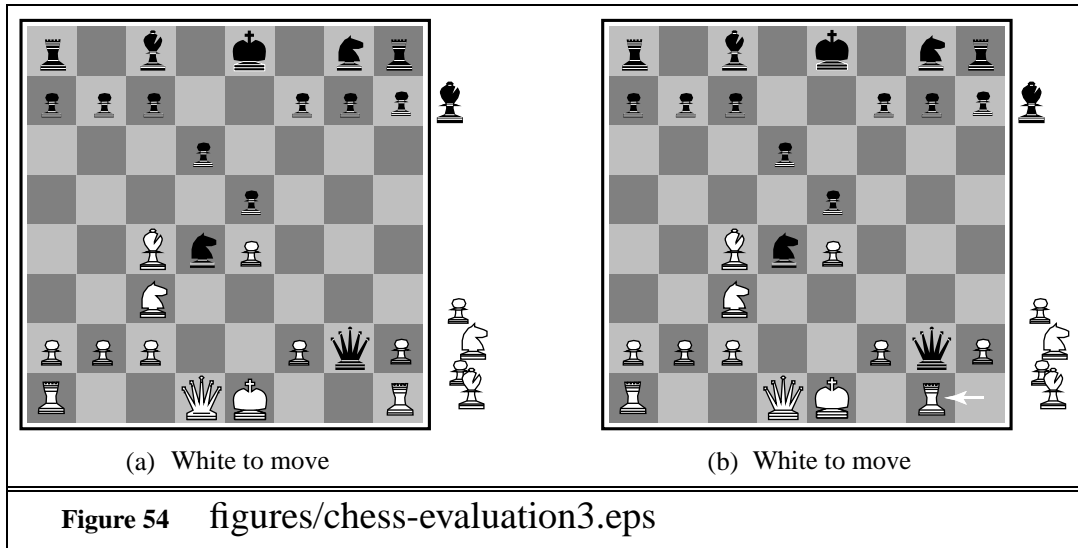
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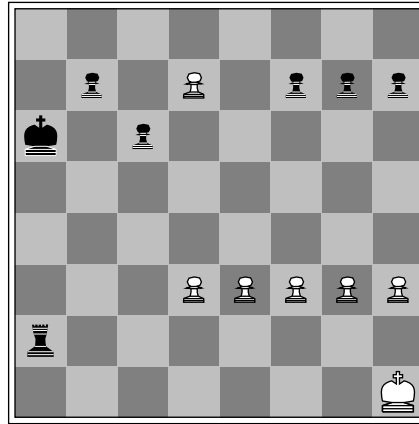
Some text



Some text



Some text



Black to move

Figure 55 figures/horizon.eps

Some text

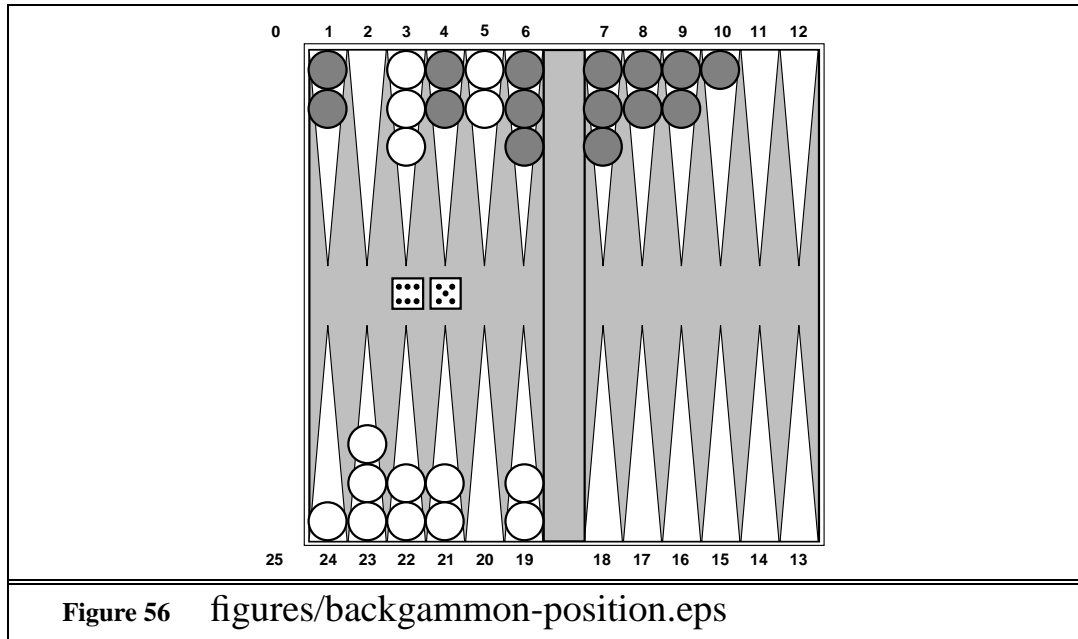
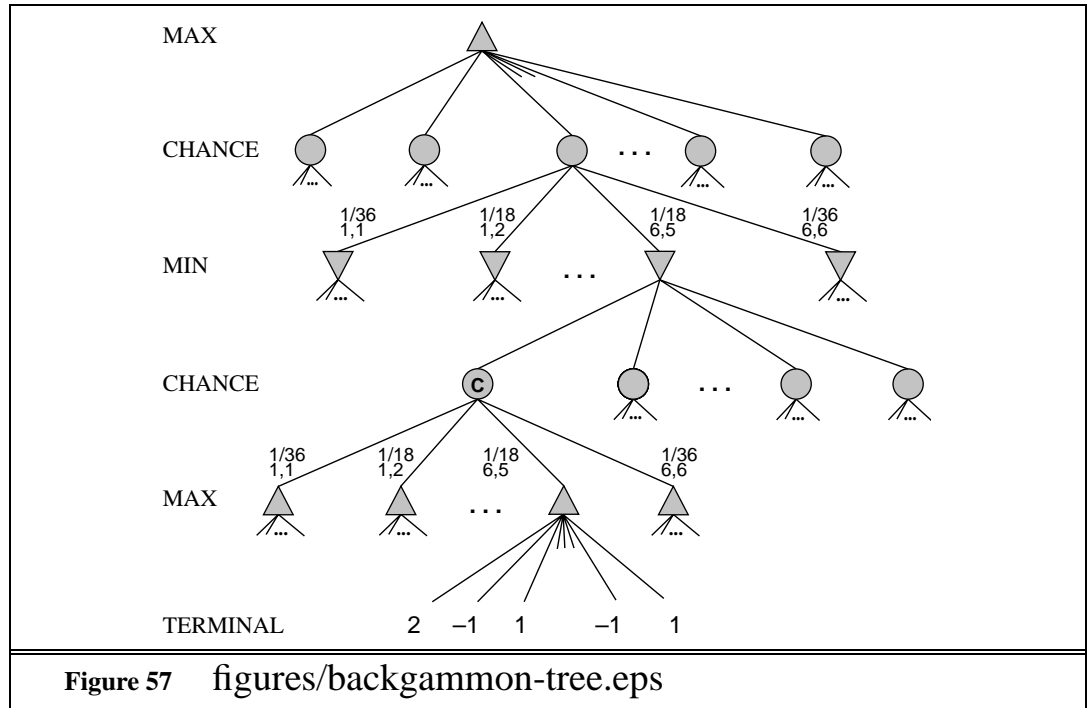
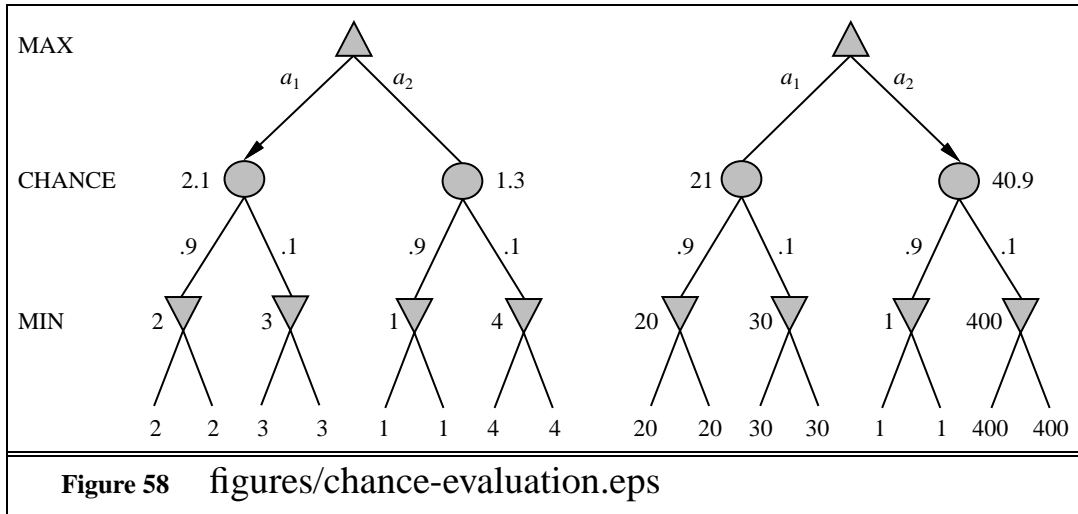


Figure 56 [figures/backgammon-position.eps](#)

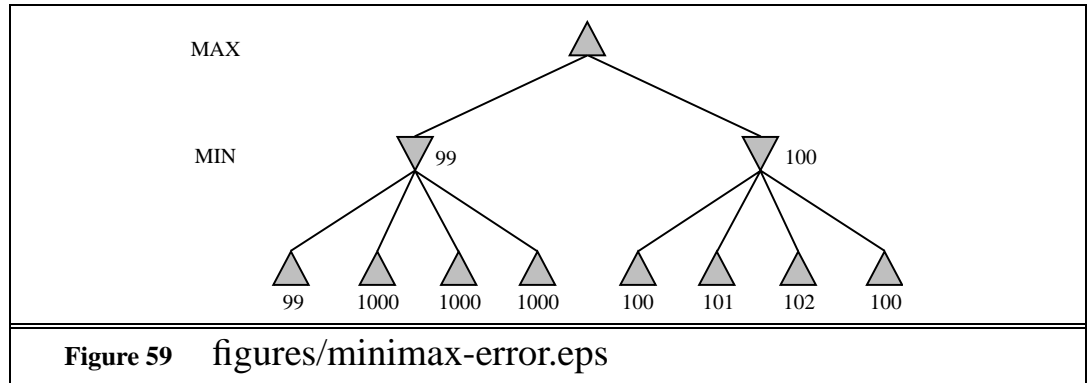
Some text



Some text



Some text



Some text



Figure 60 figures/line-game4.eps

Some text

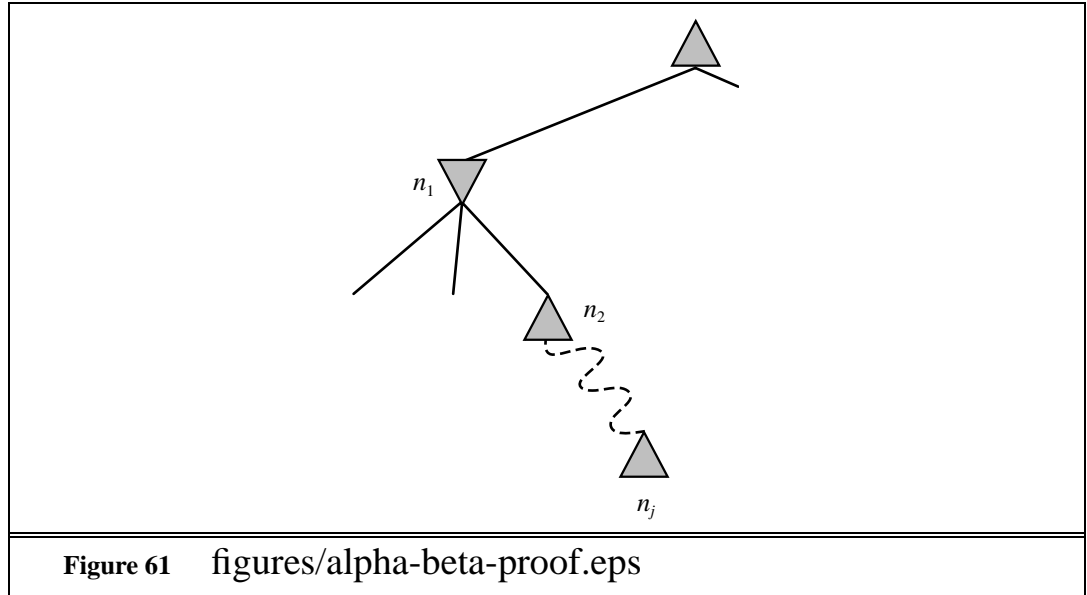


Figure 61 figures/alpha-beta-proof.eps

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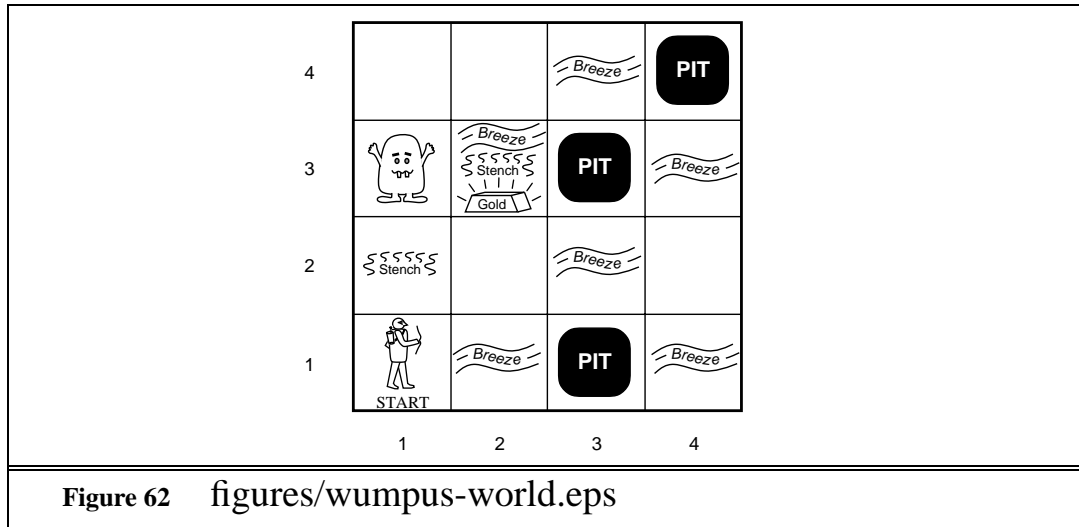
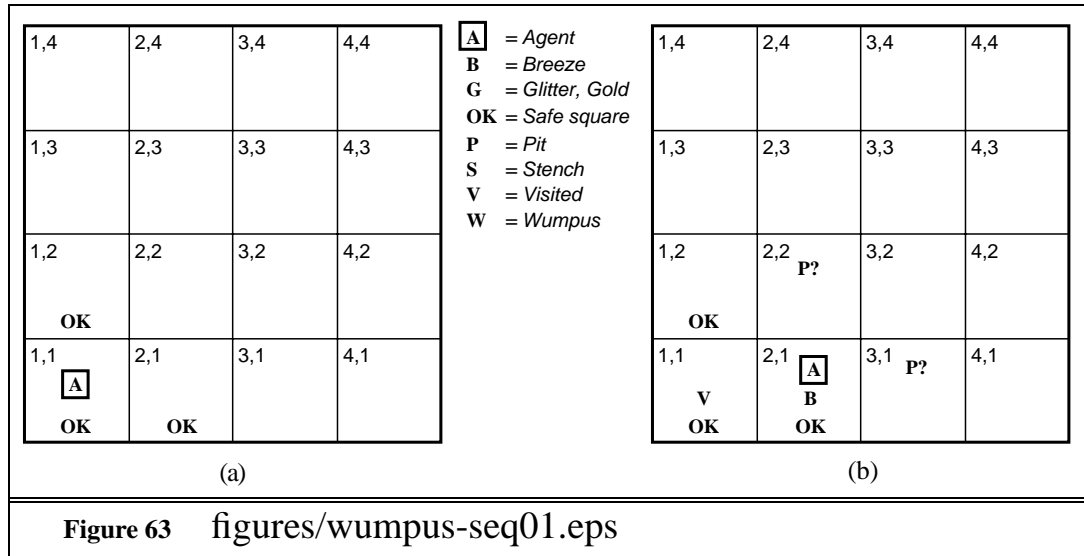
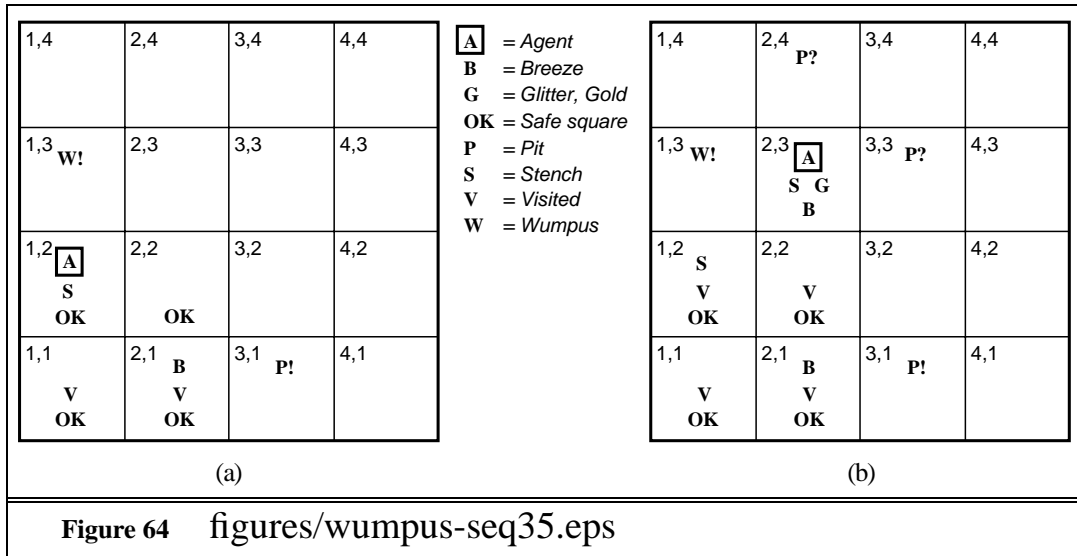


Figure 62 figures/wumpus-world.eps

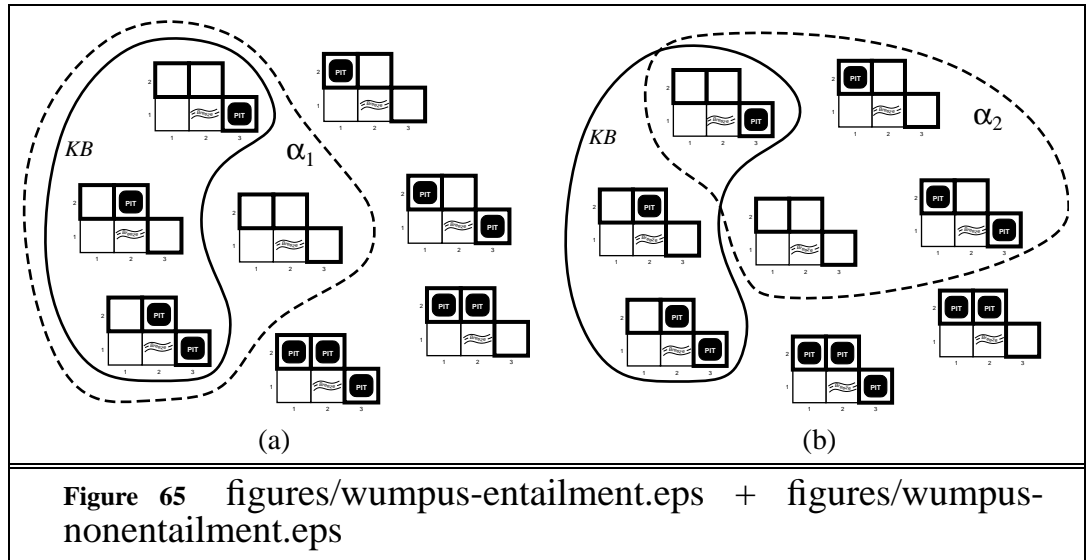
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Some text



Some text



Some text

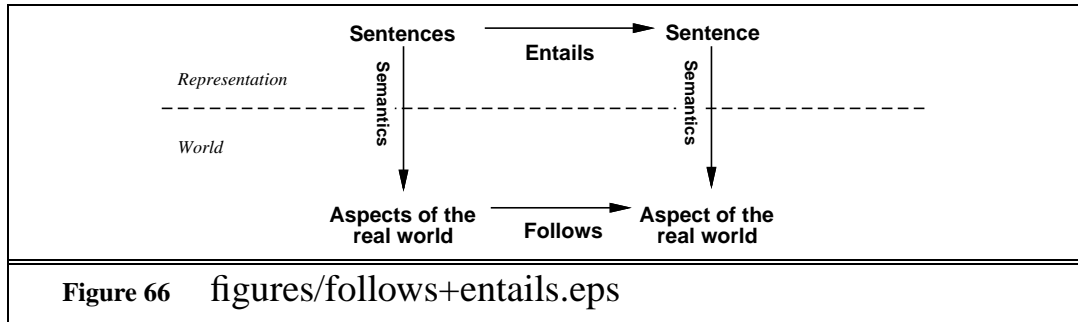
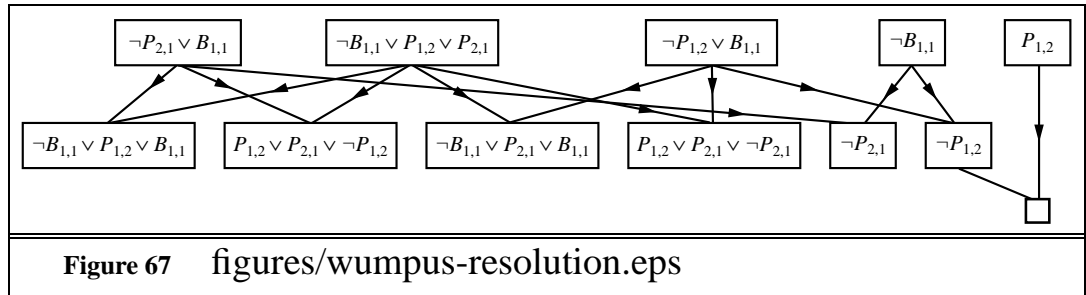
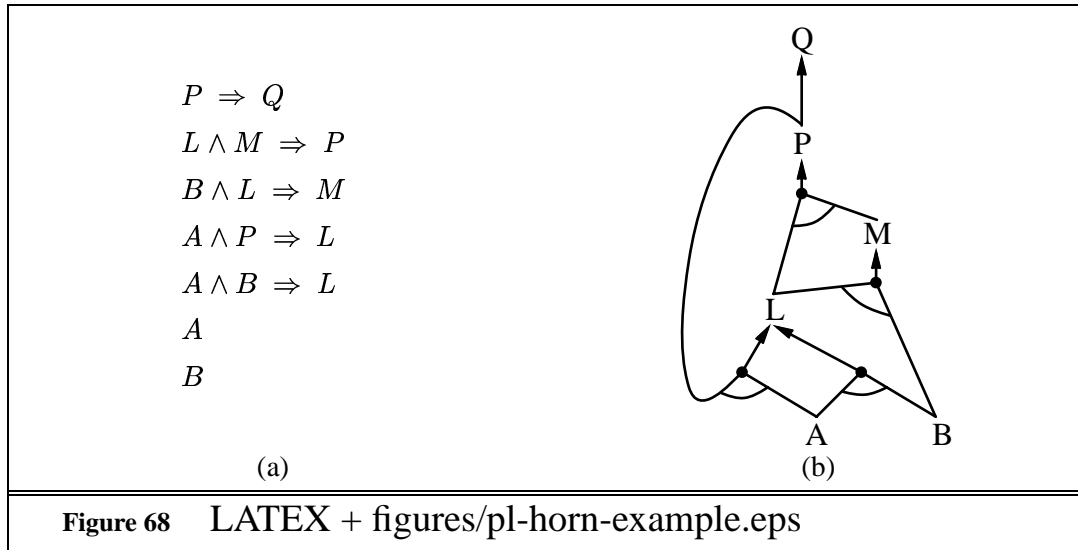


Figure 66 figures/follows+entails.eps

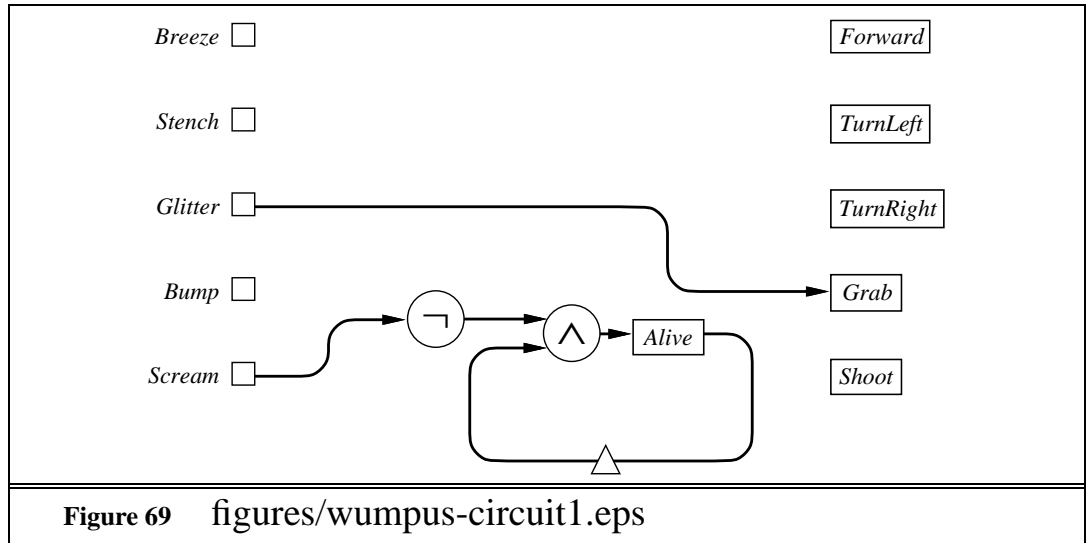
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Some text



Some text

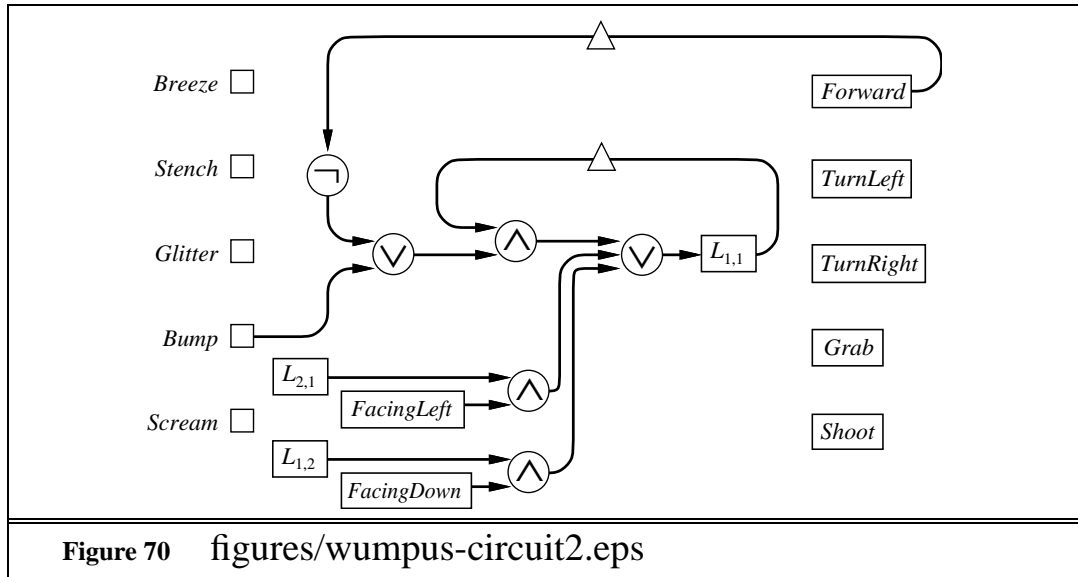


Figure 70 figures/wumpus-circuit2.eps

Some text

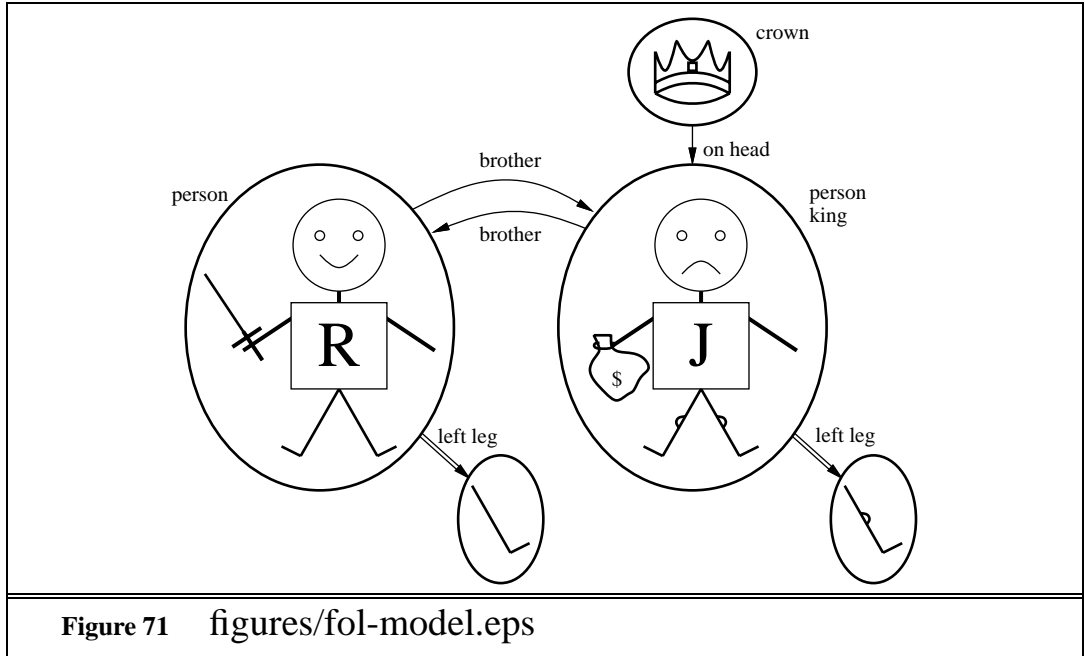
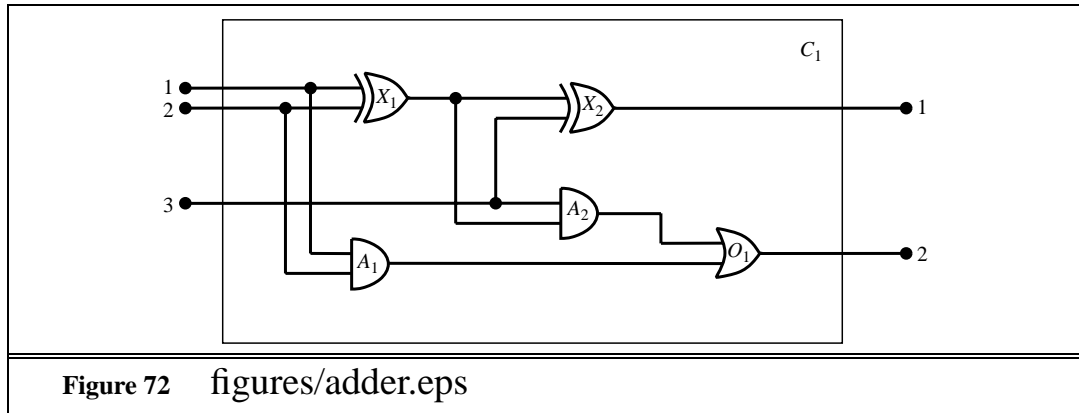
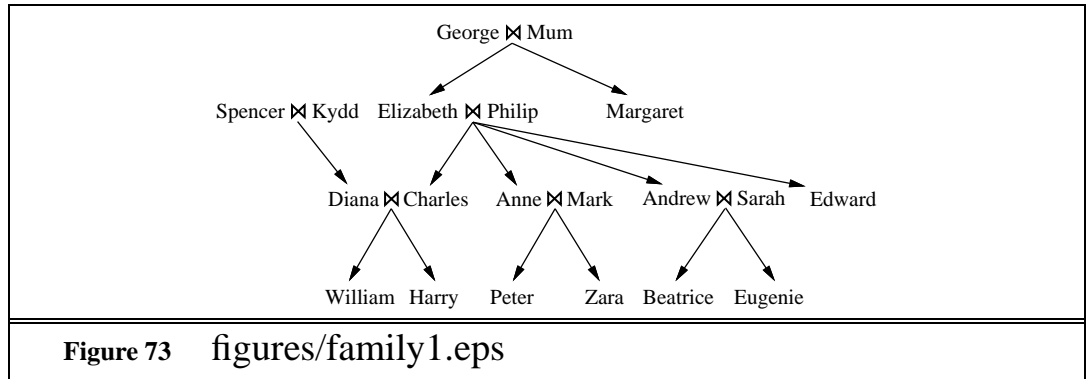


Figure 71 figures/fol-model.eps

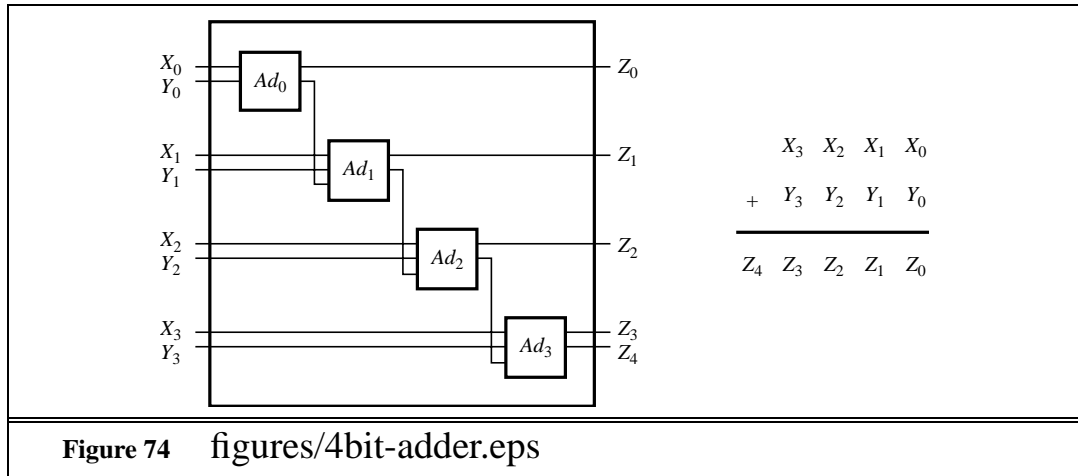
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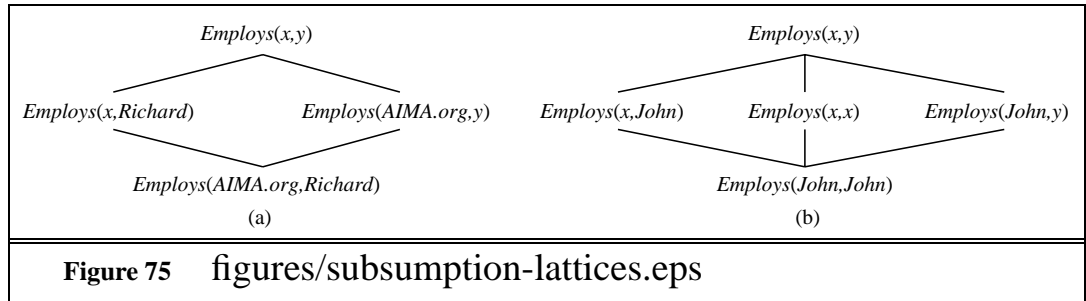
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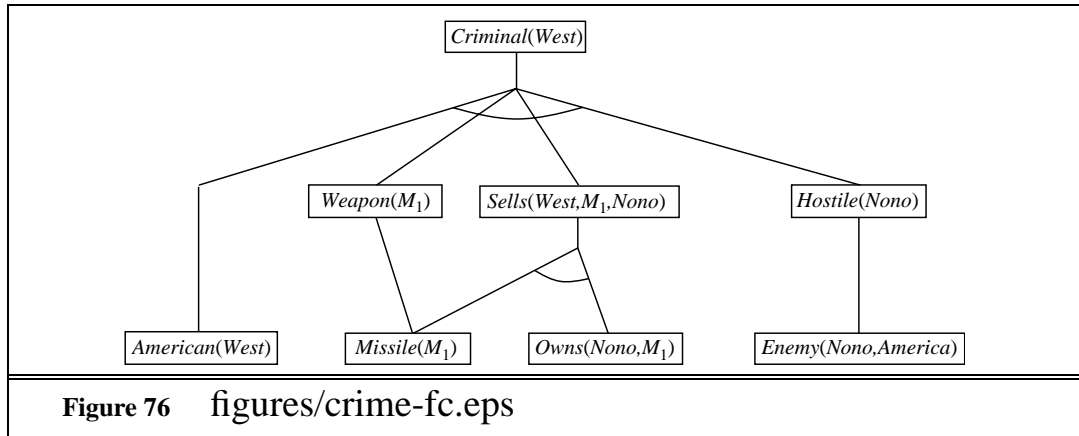
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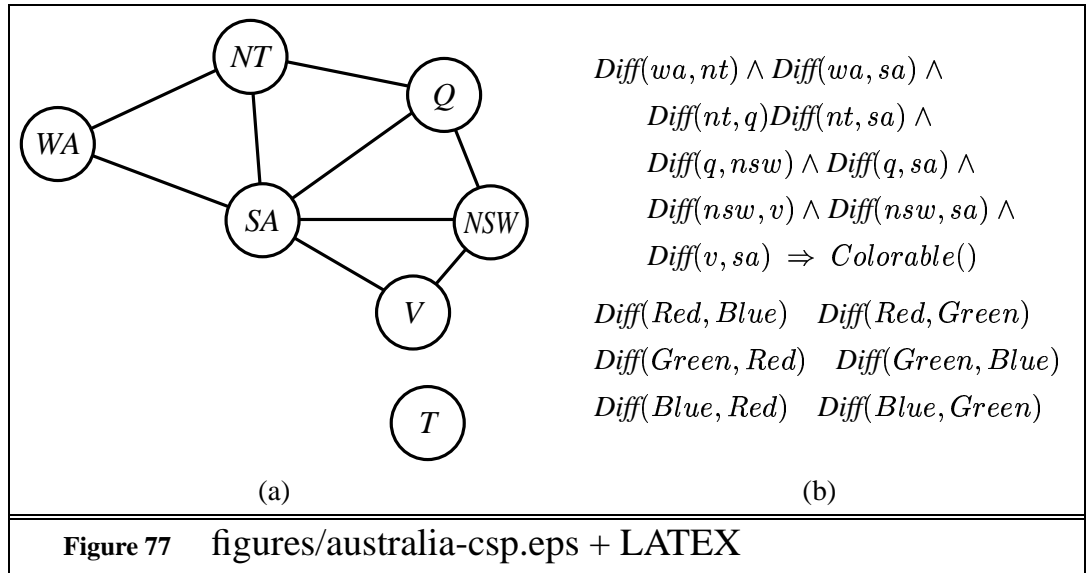
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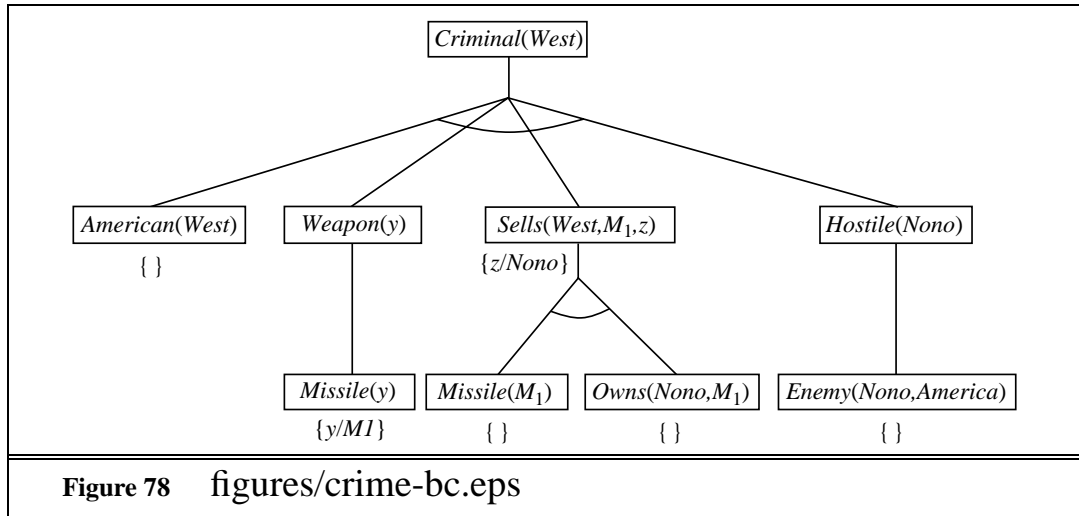
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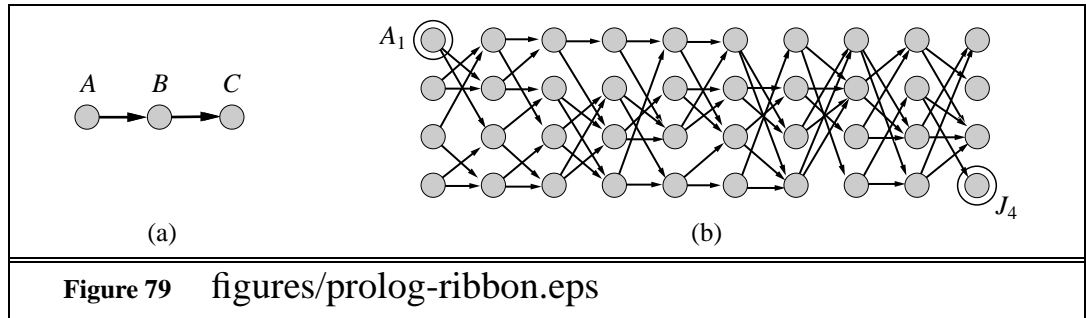
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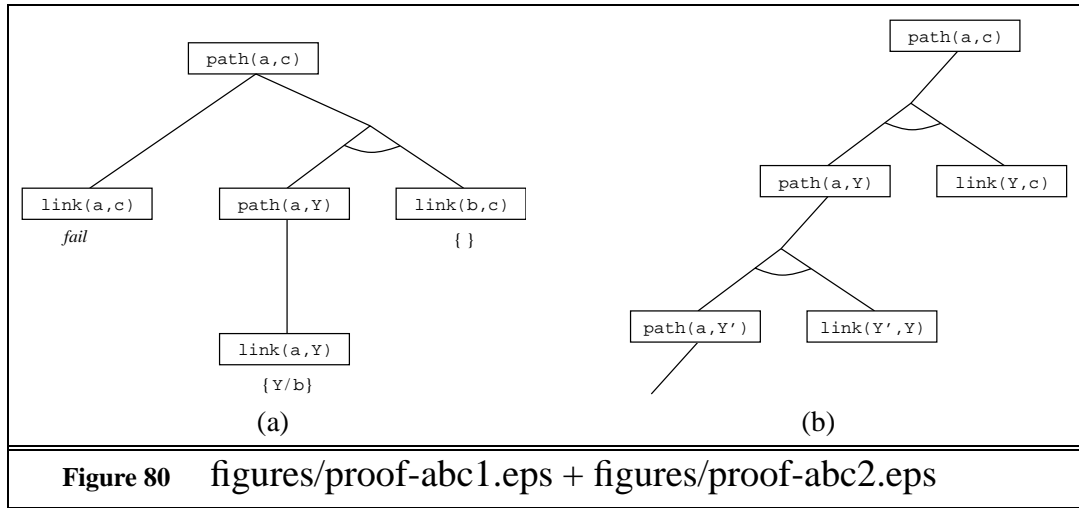
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Some text



Some text



Some text

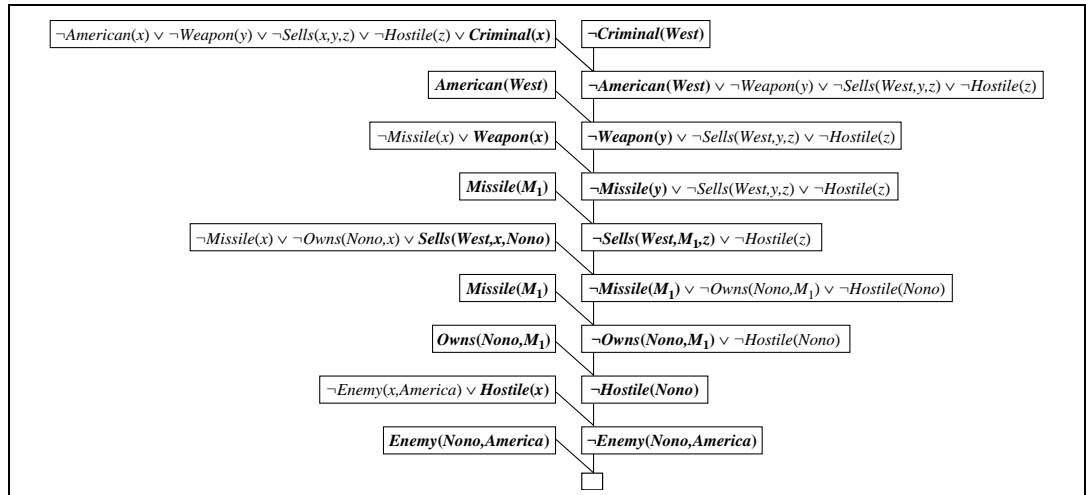


Figure 81 figures/crime-resolution.eps

Some text

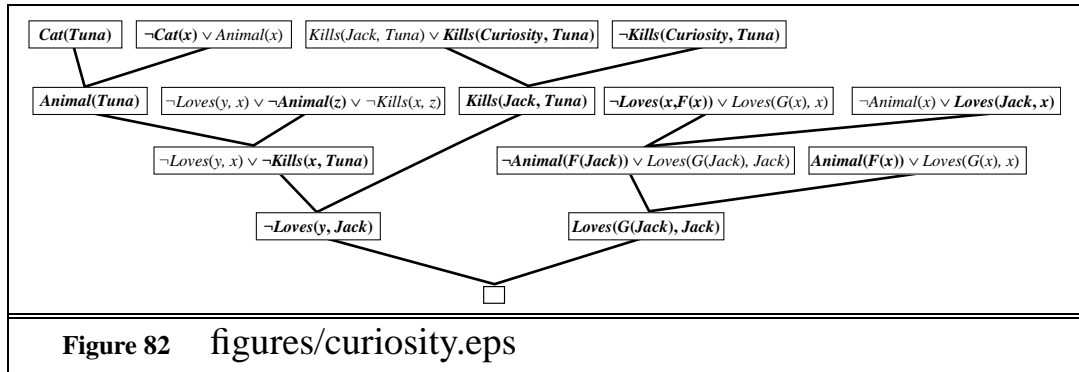
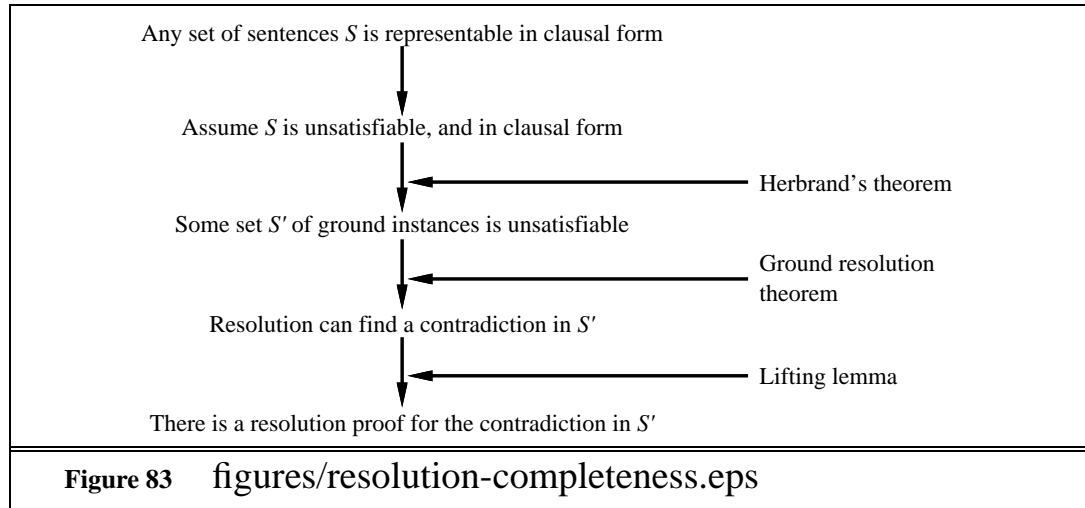


Figure 82 figures/curiosity.eps

Some text



Some text

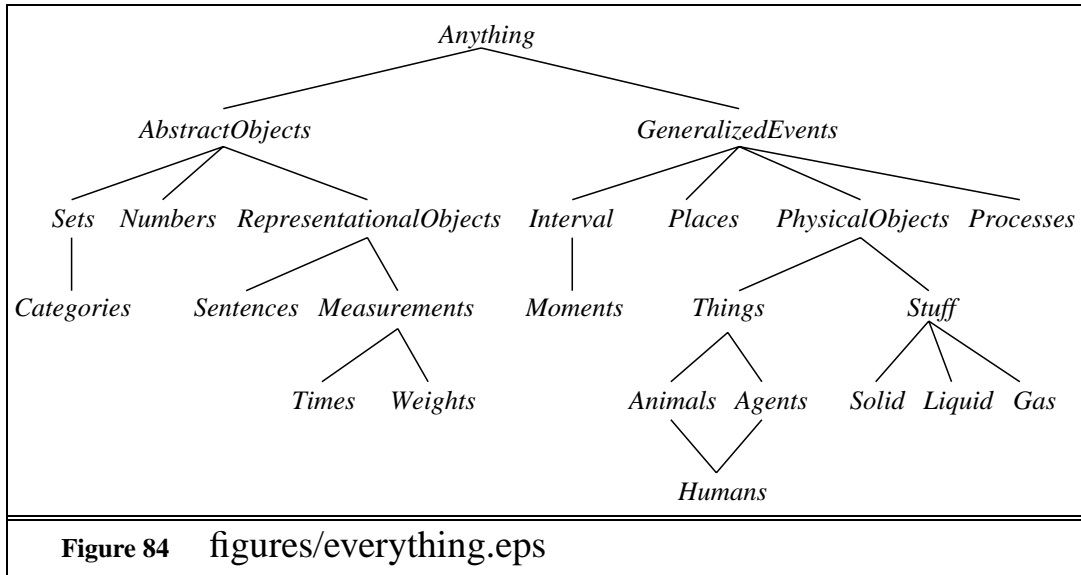


Figure 84 figures/everything.eps

Some text

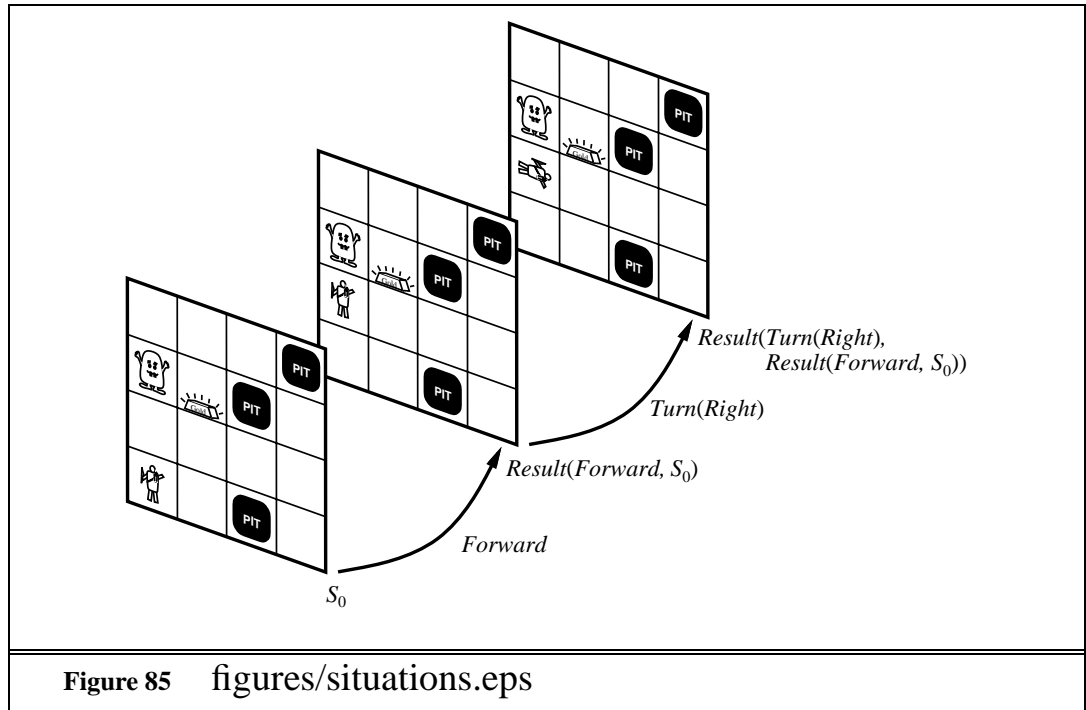


Figure 85 figures/situations.eps

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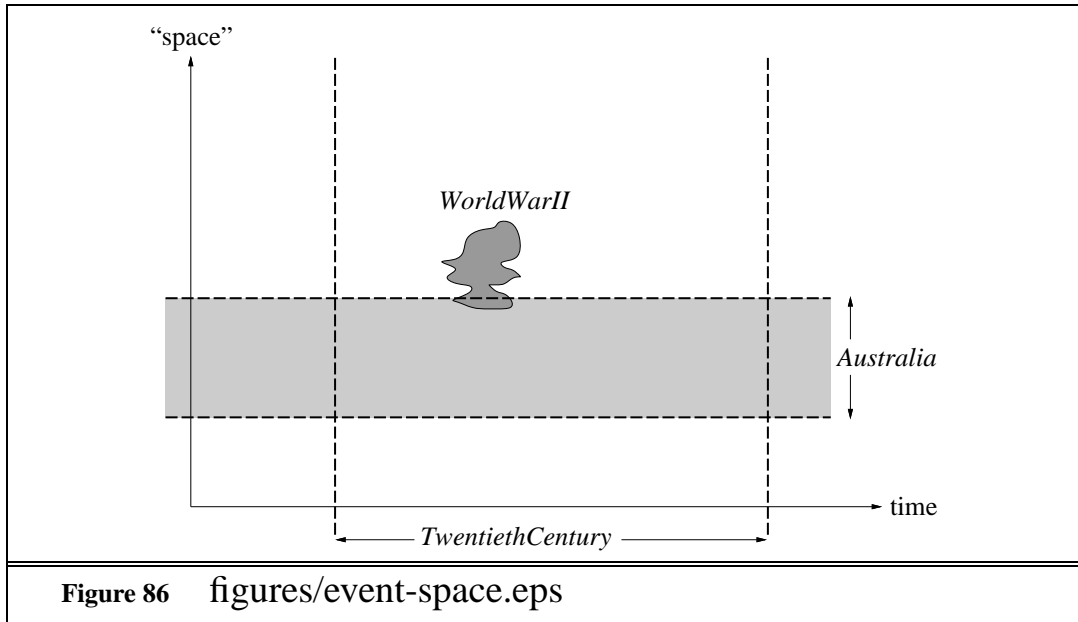
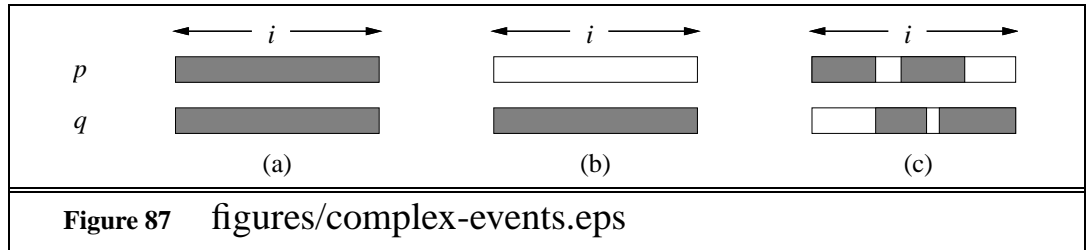


Figure 86 figures/event-space.eps

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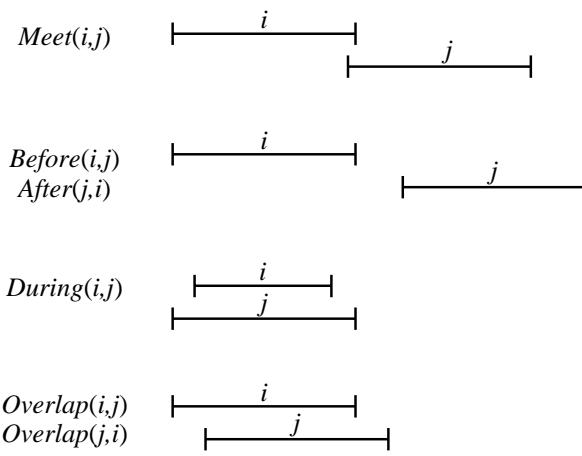
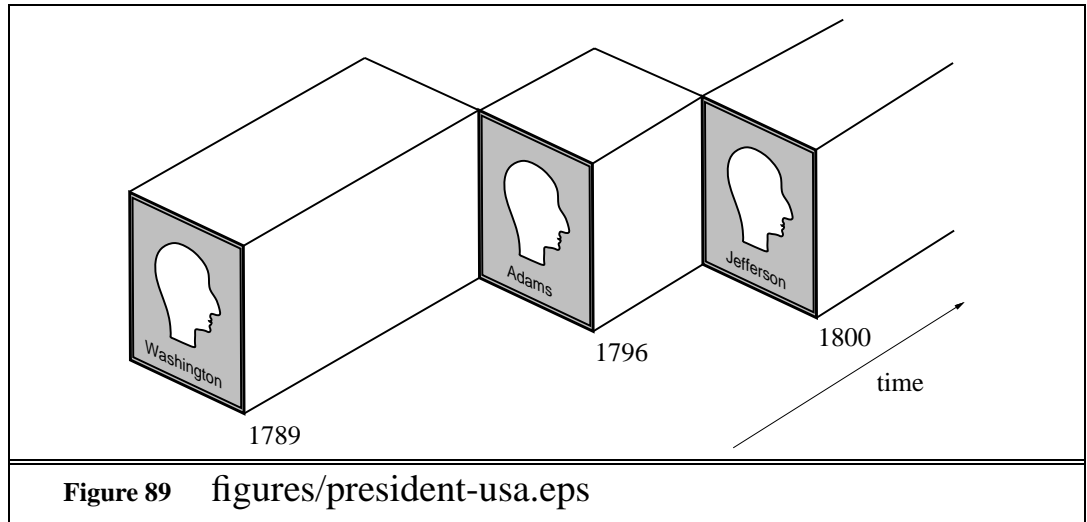


Figure 88 figures/time-intervals.eps

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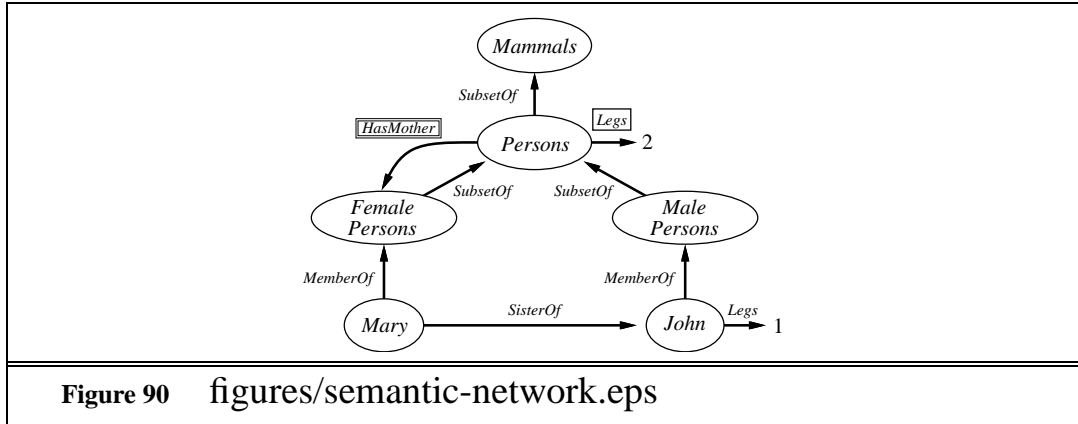
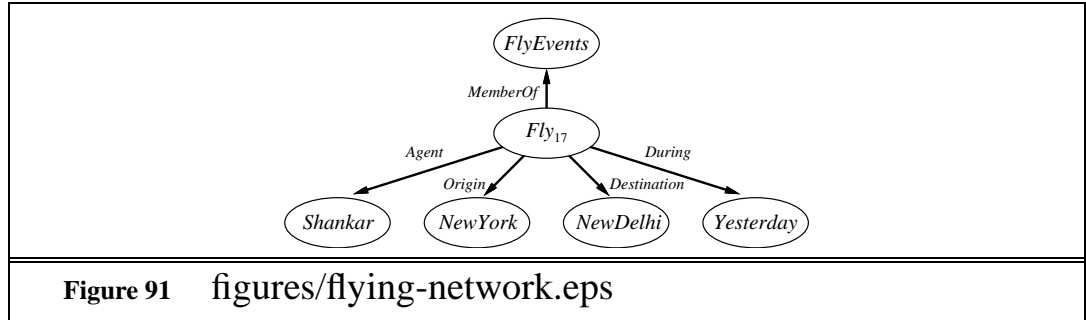
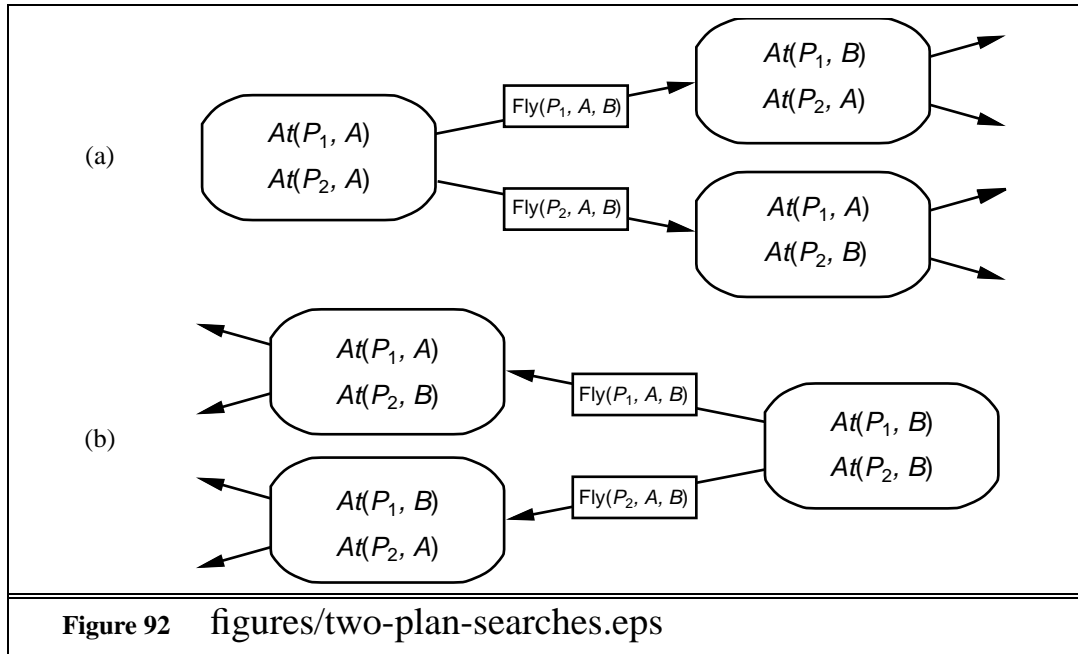


Figure 90 figures/semantic-network.eps

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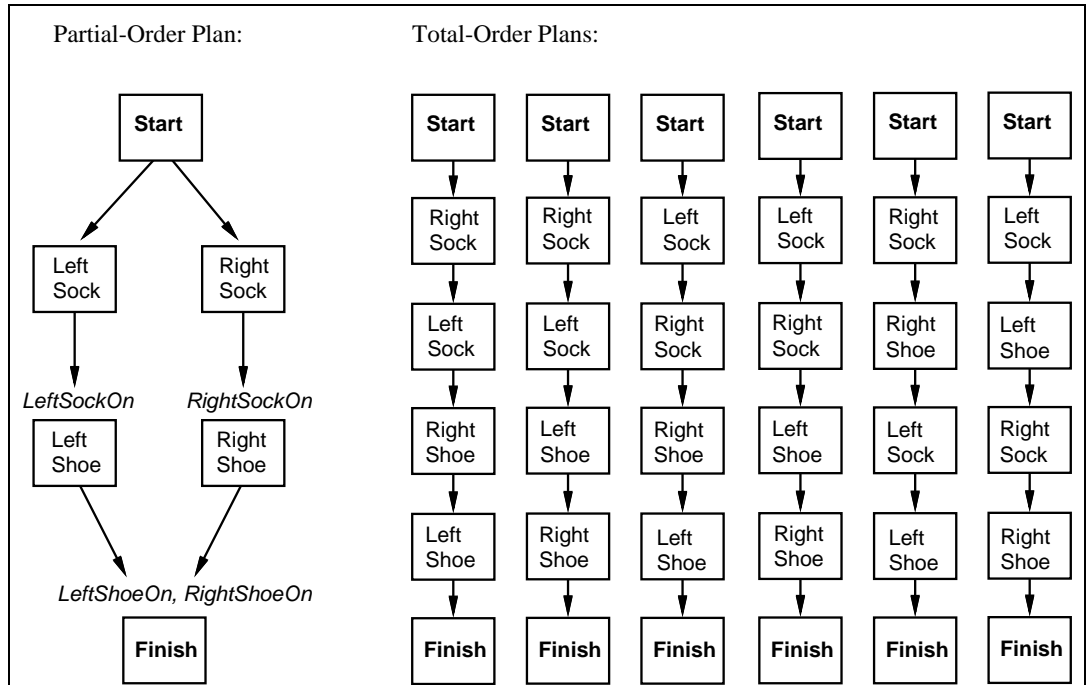
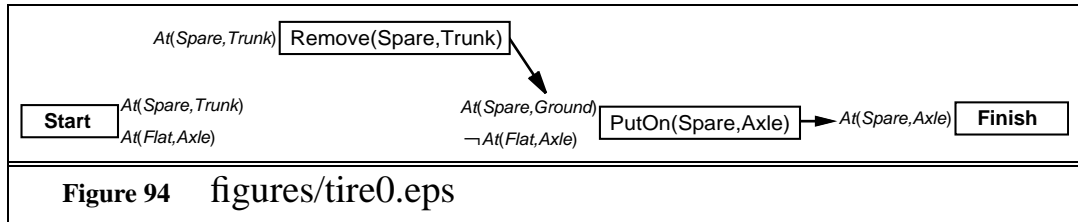
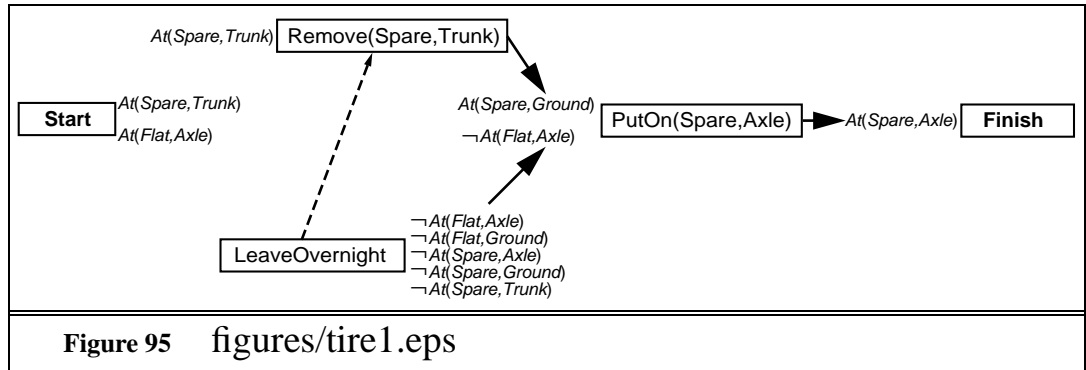


Figure 93 figures/shoes-socks3.eps

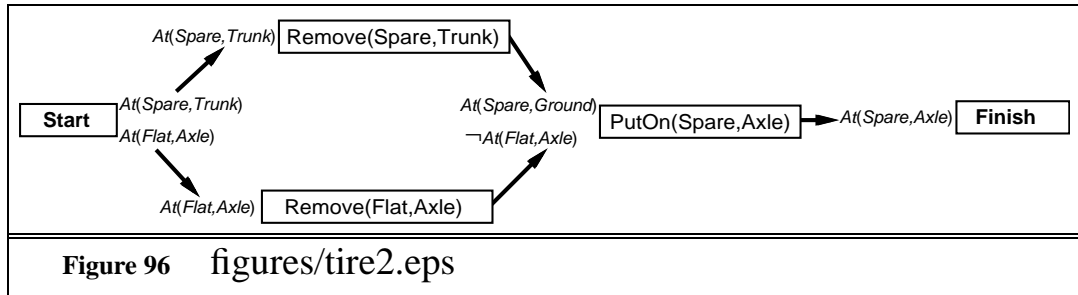
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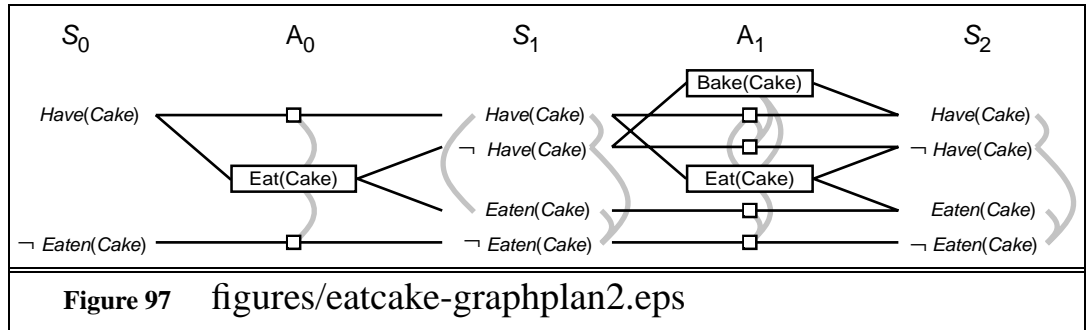
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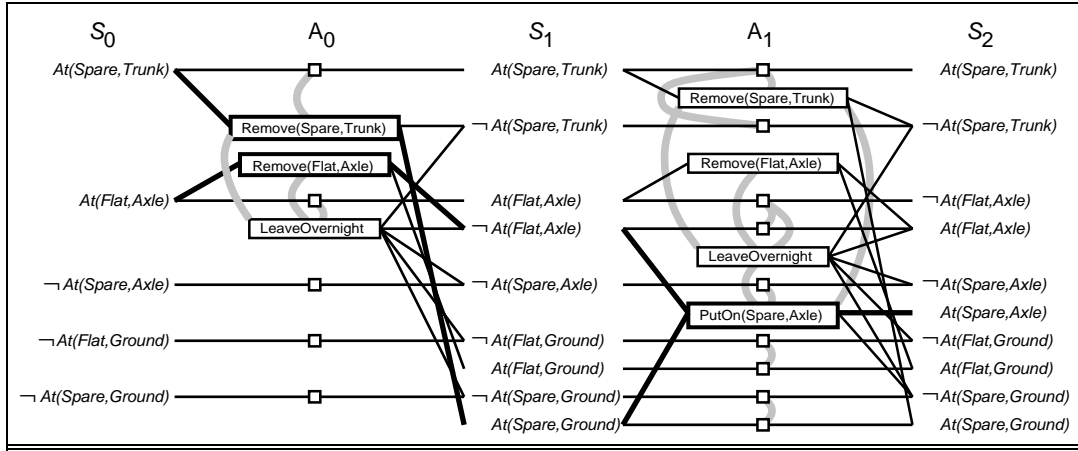
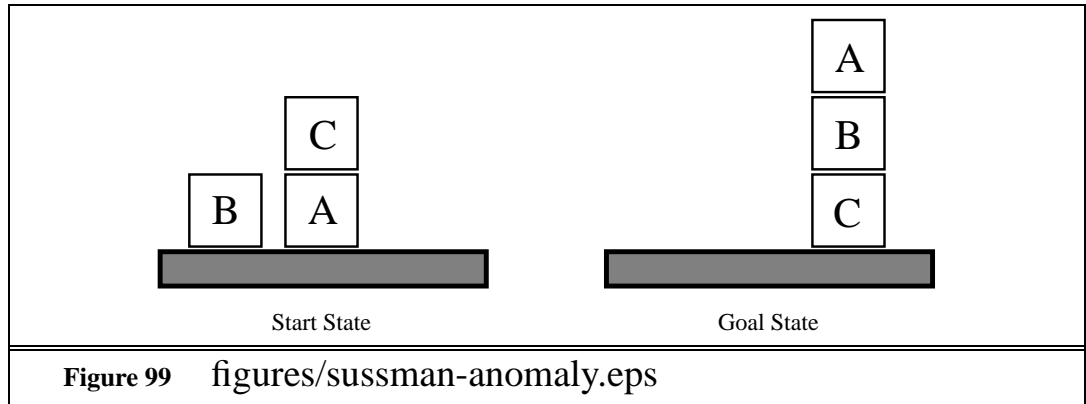
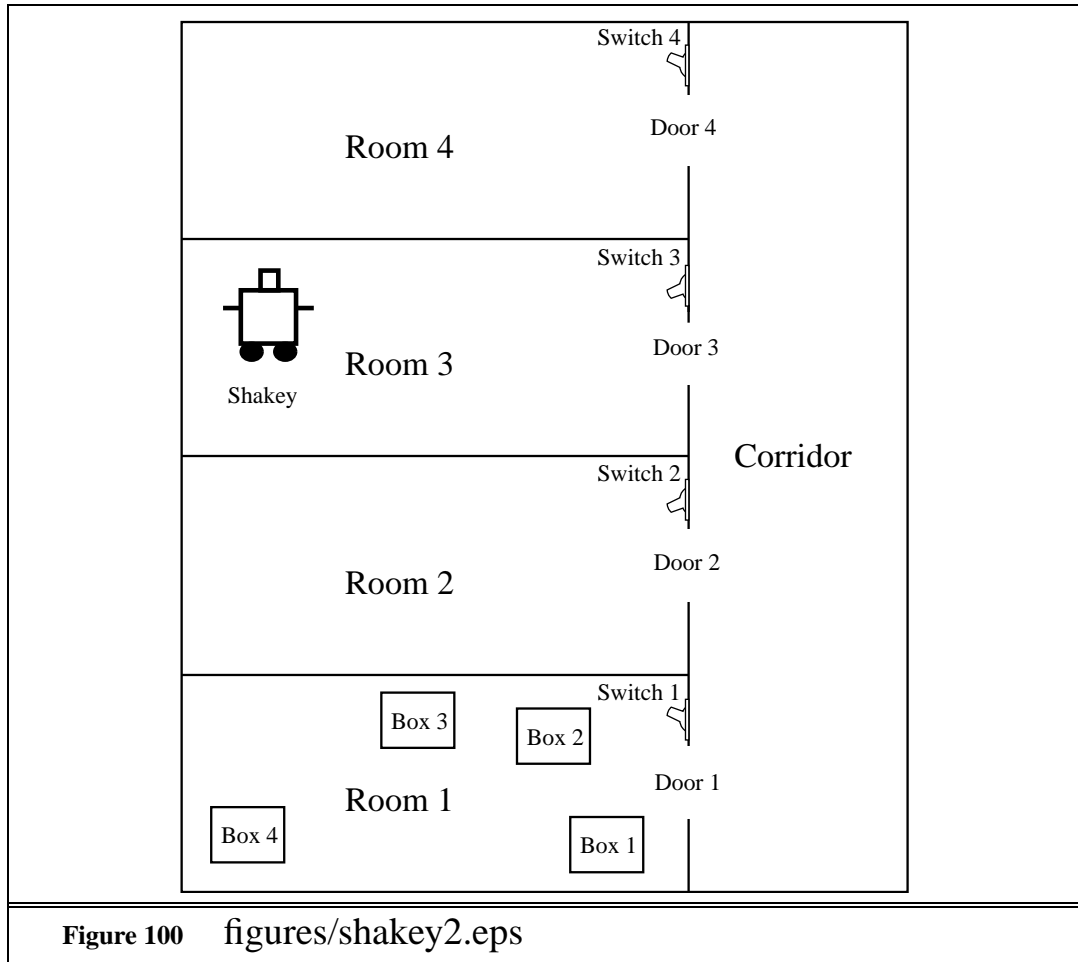


Figure 98 figures/tire-graphplan2.eps

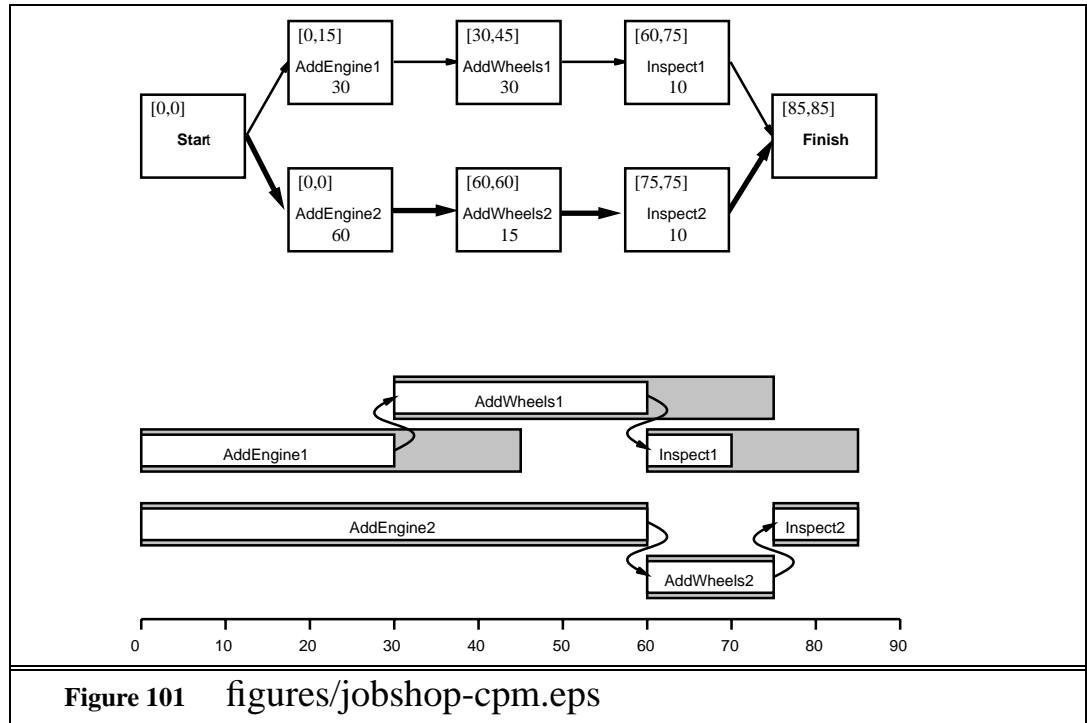
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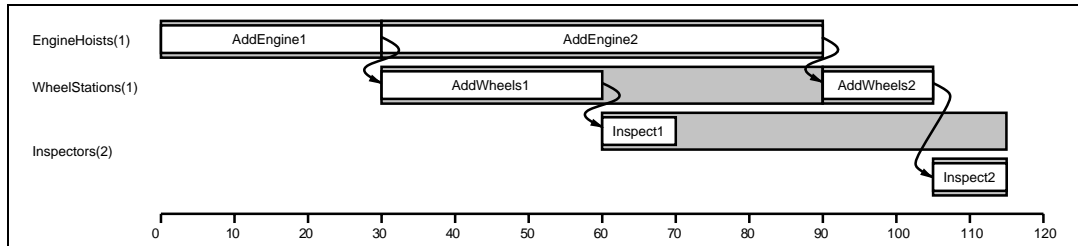


Figure 102 figures/jobshop-resources.eps

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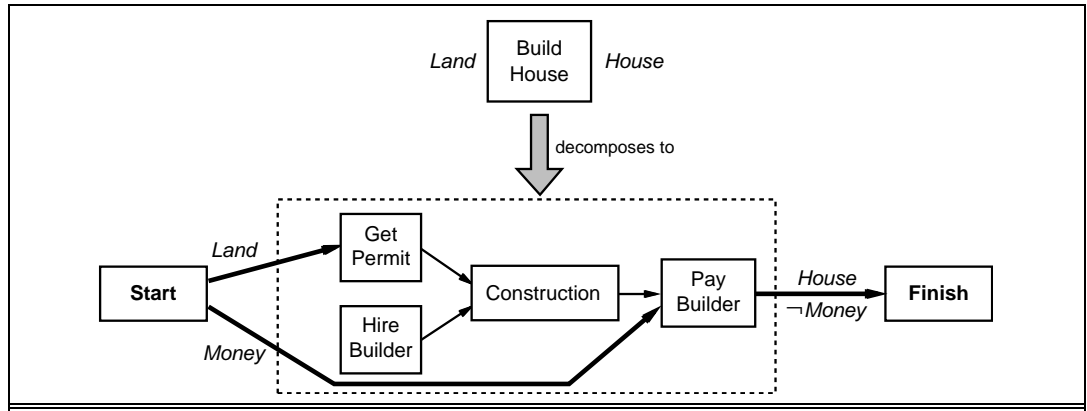


Figure 103 figures/house-decomposition.eps

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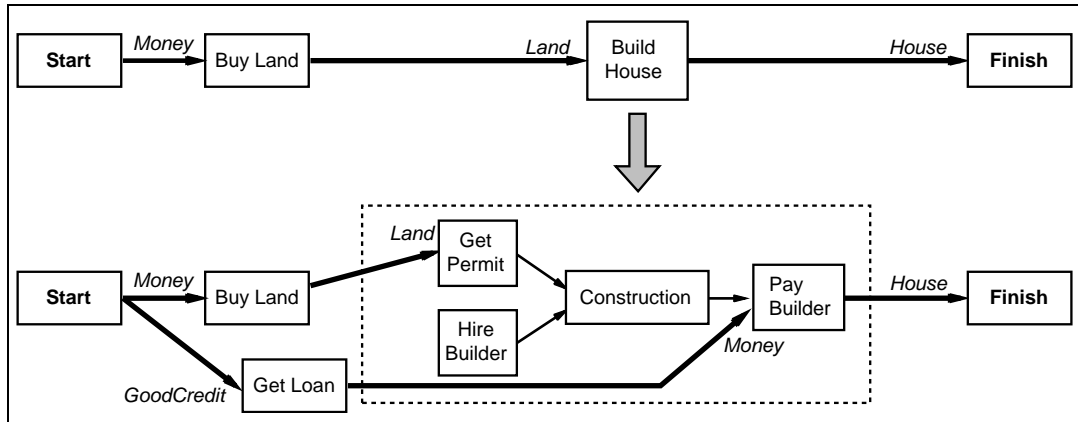
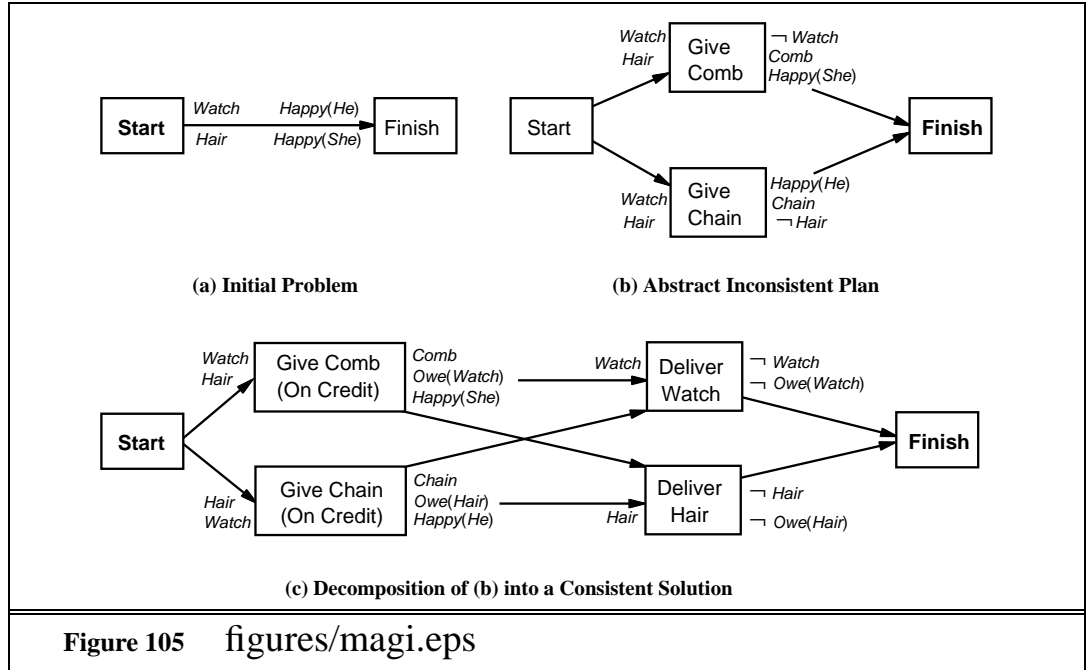


Figure 104 figures/house-hybrid-htn.eps

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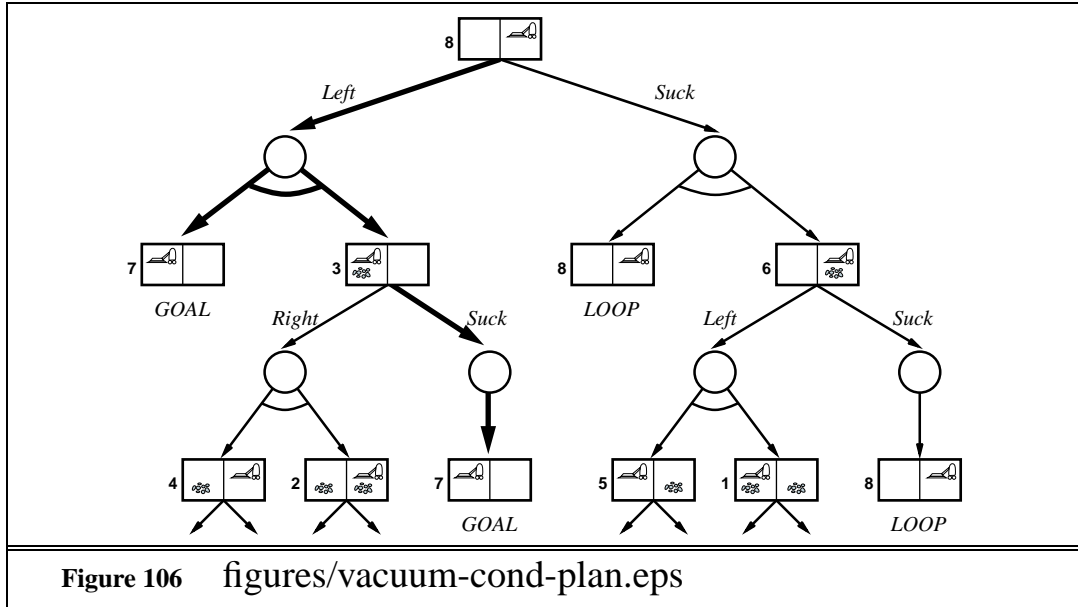


Figure 106 figures/vacuum-cond-plan.eps

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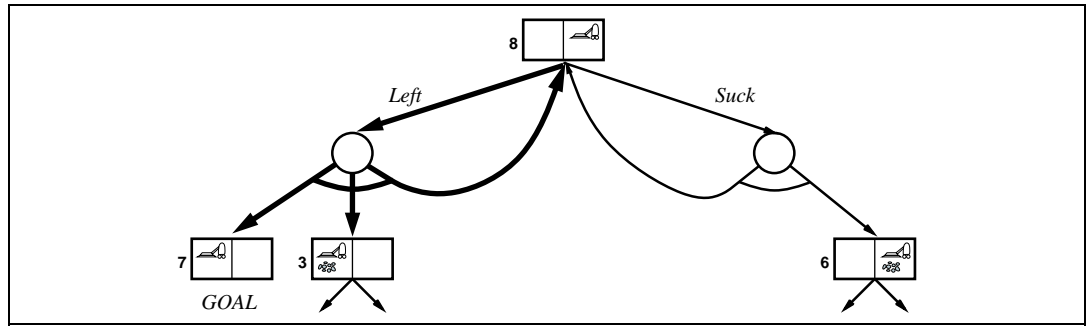
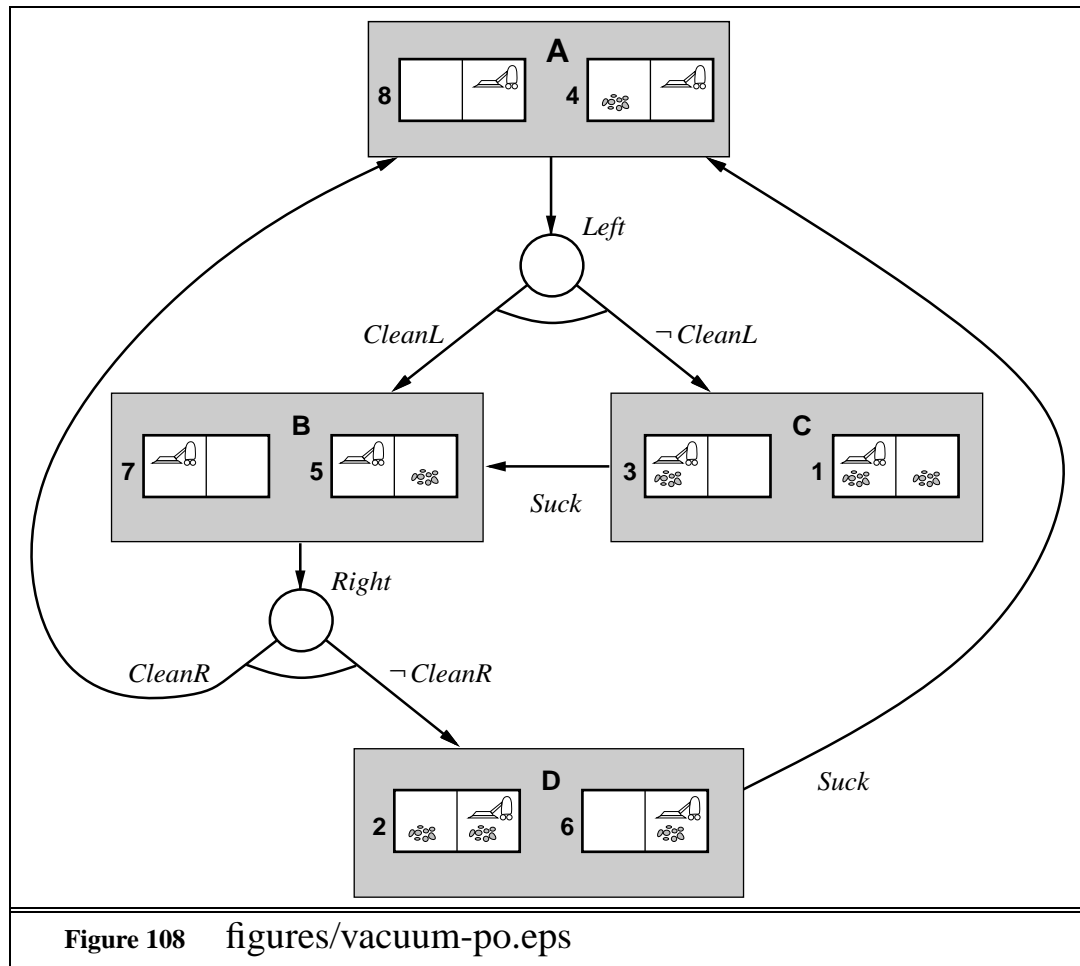


Figure 107 figures/vacuum-loop-plan.eps

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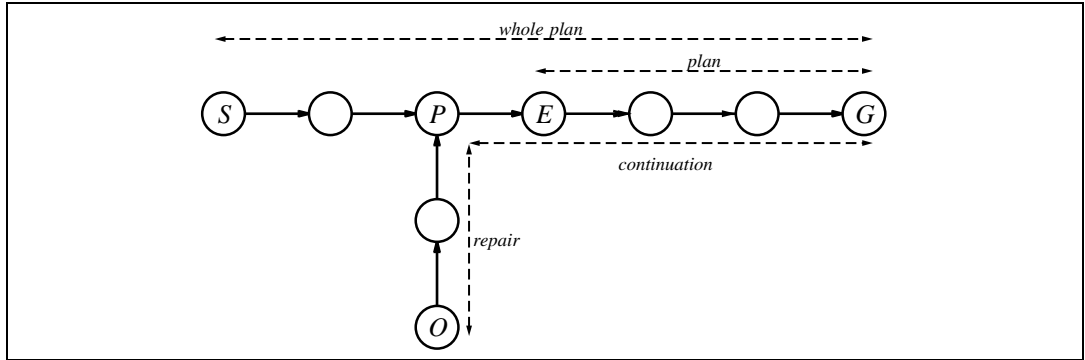
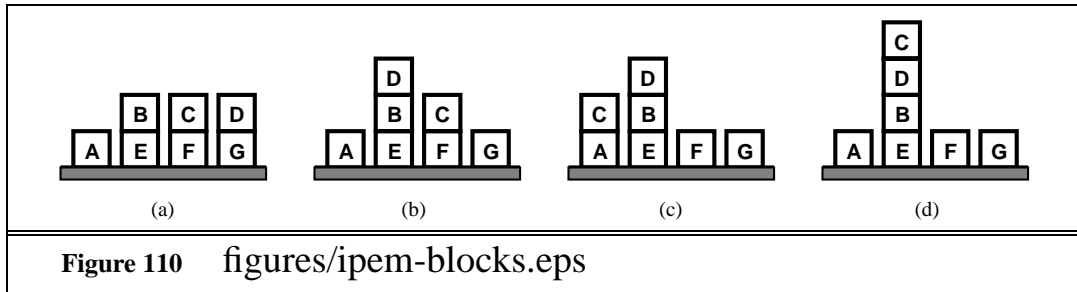
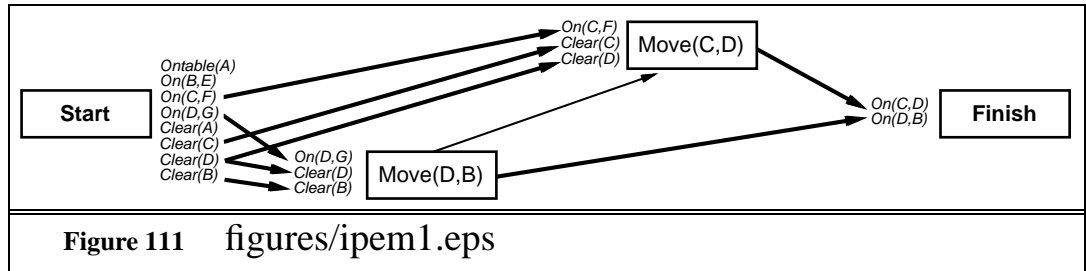


Figure 109 figures/plan-repair.eps

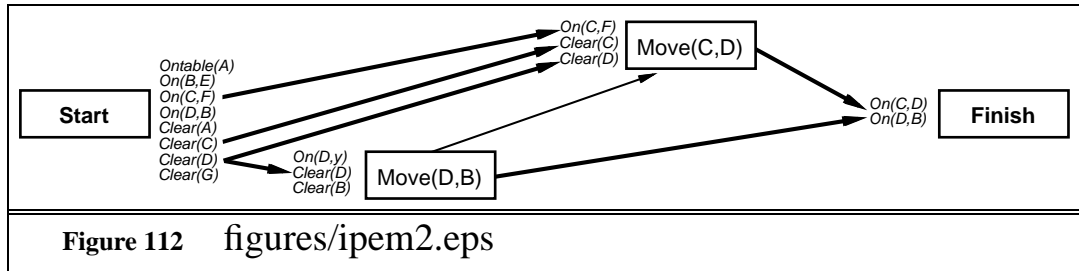
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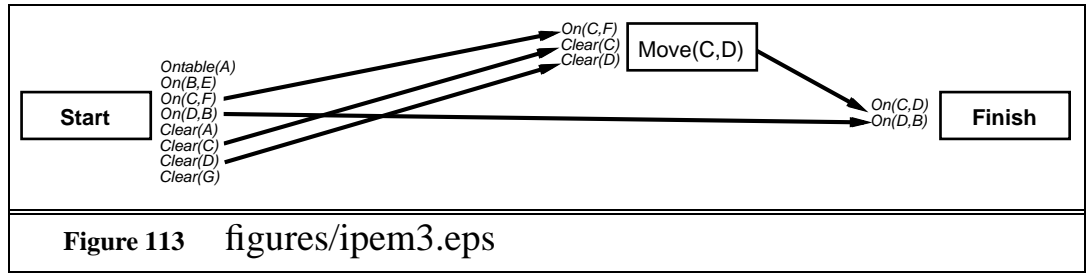
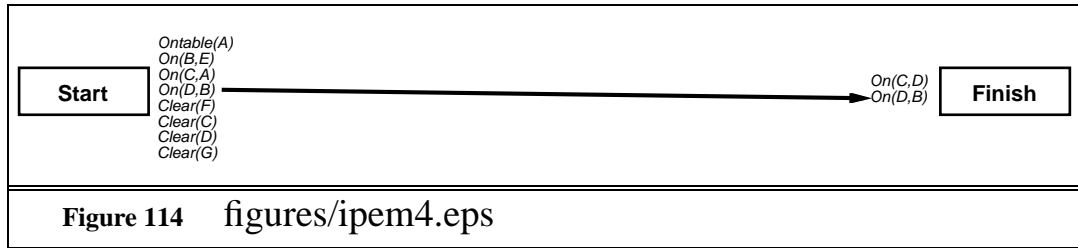
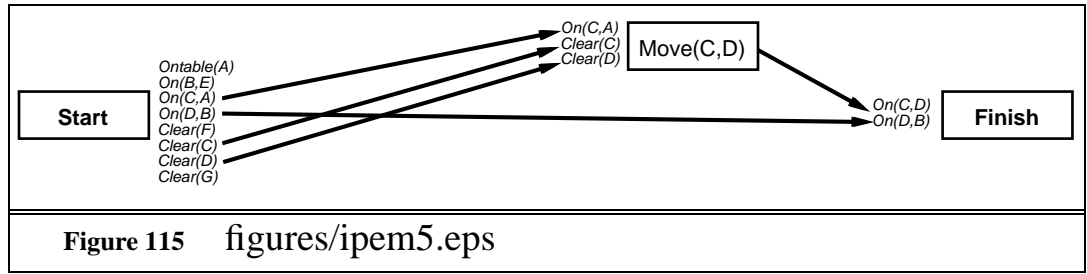


Figure 113 figures/ipem3.eps

Some text



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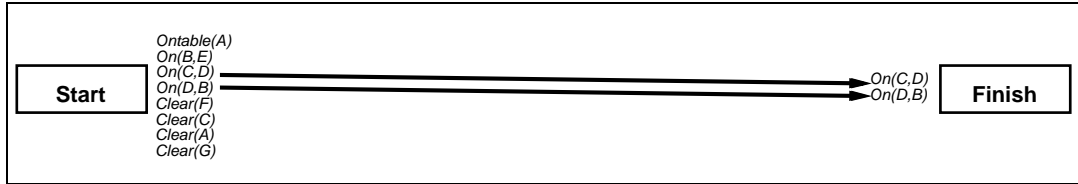
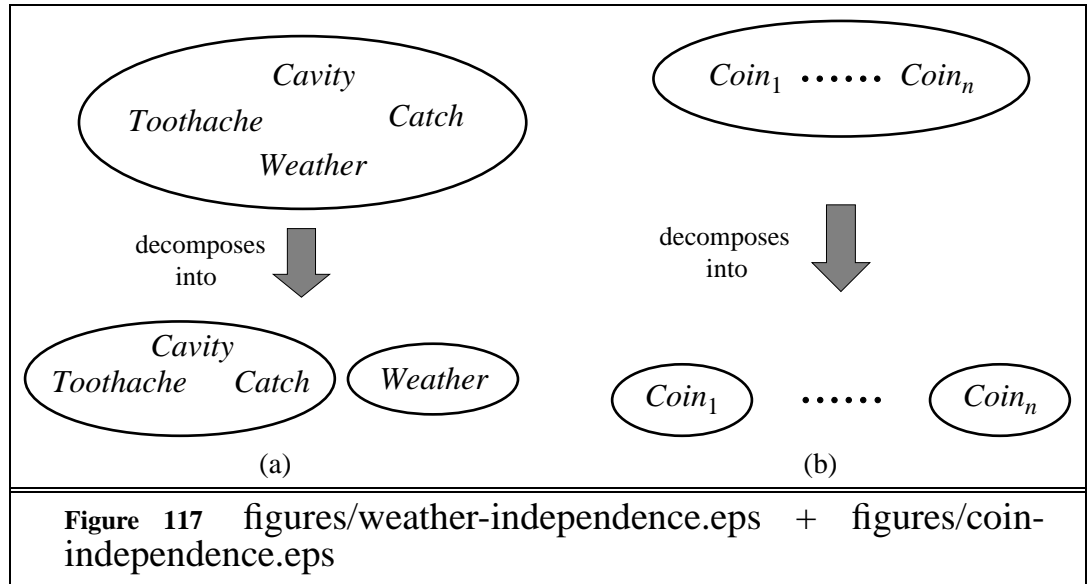
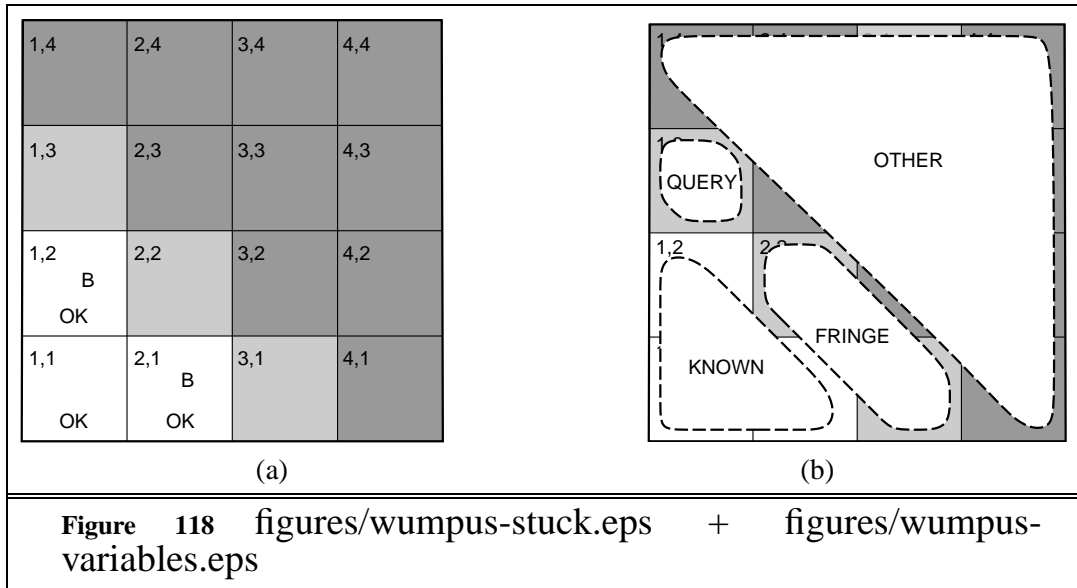


Figure 116 figures/ipem6.eps

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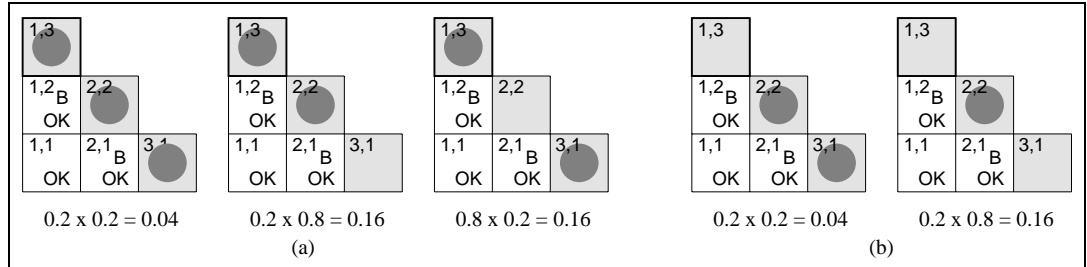


Figure 119 figures/wumpus-fringe-models.eps

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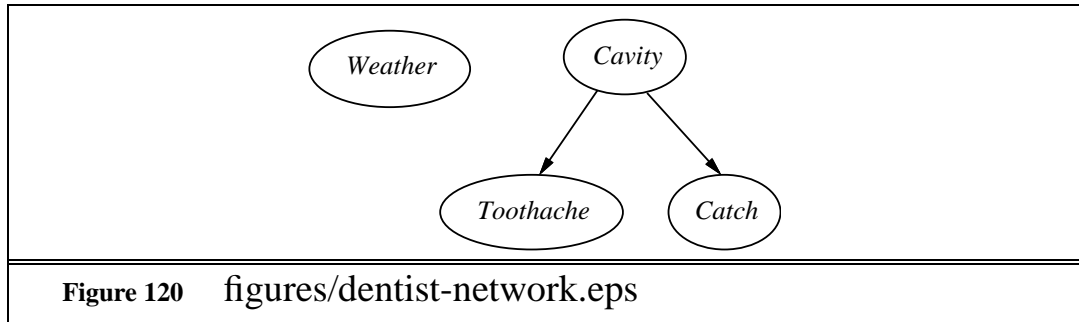
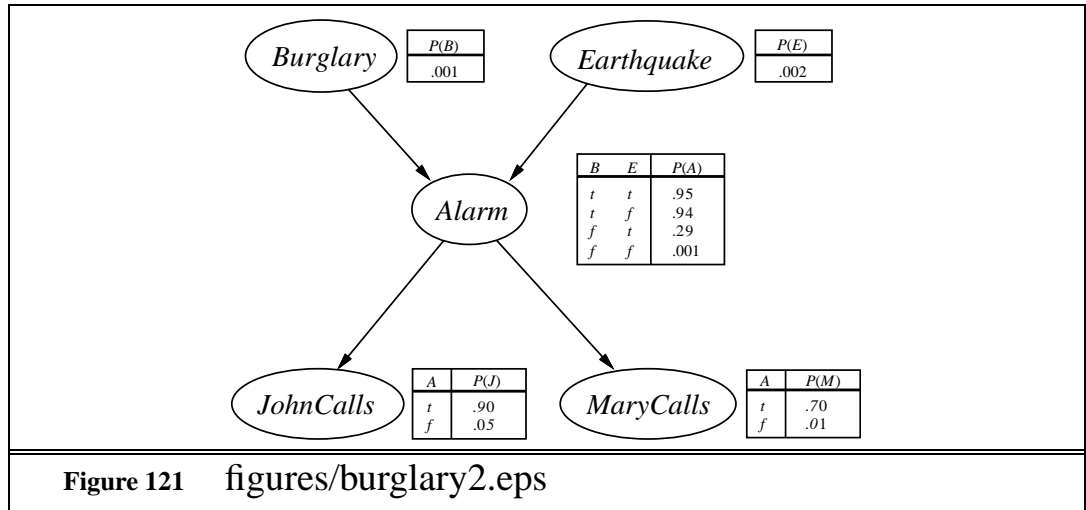
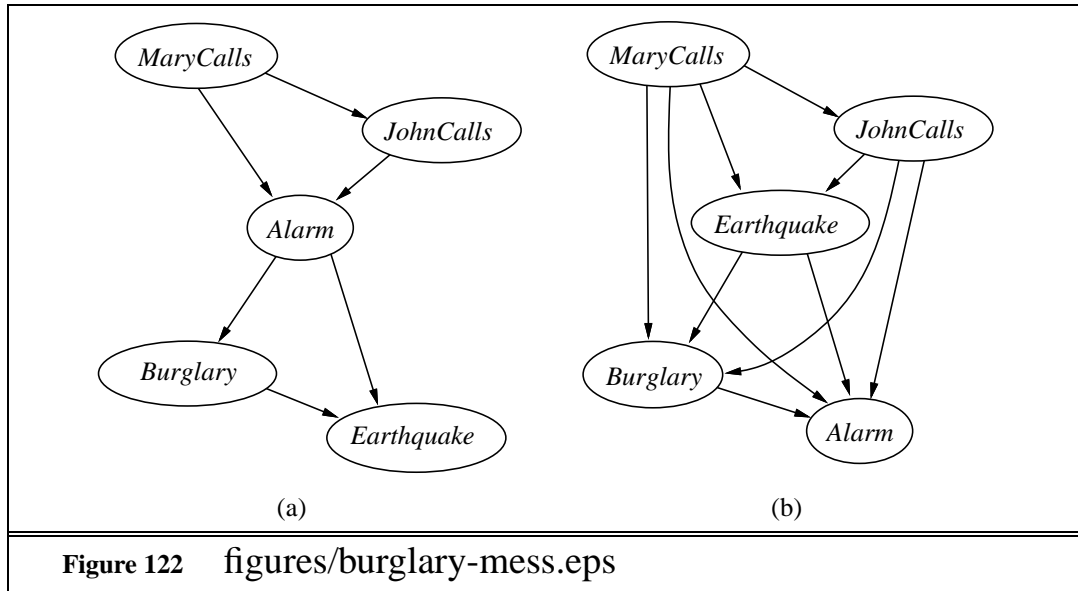


Figure 120 figures/dentist-network.eps

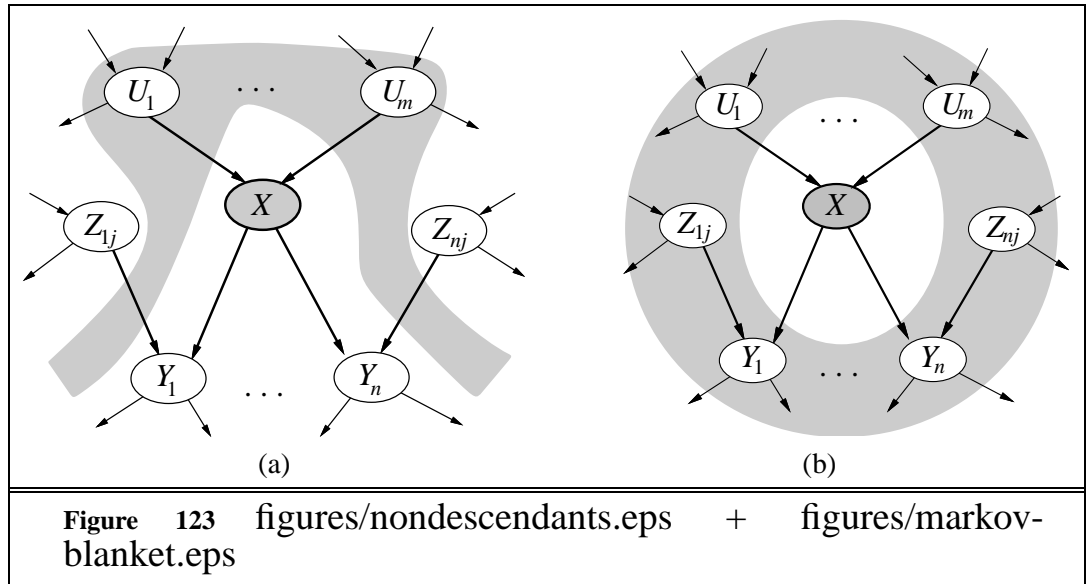
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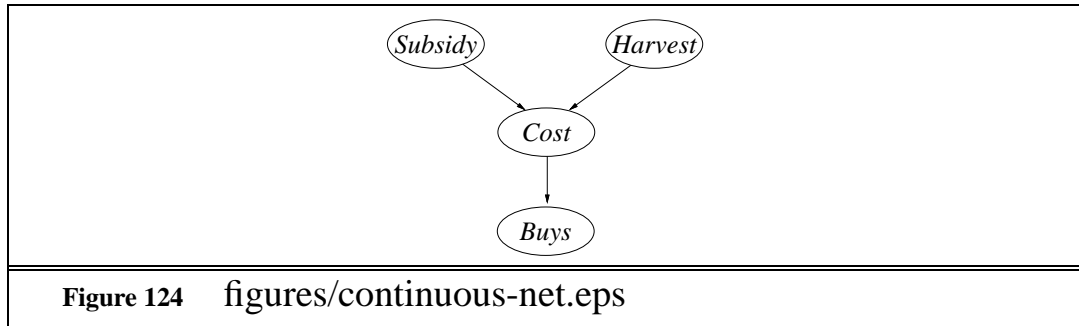
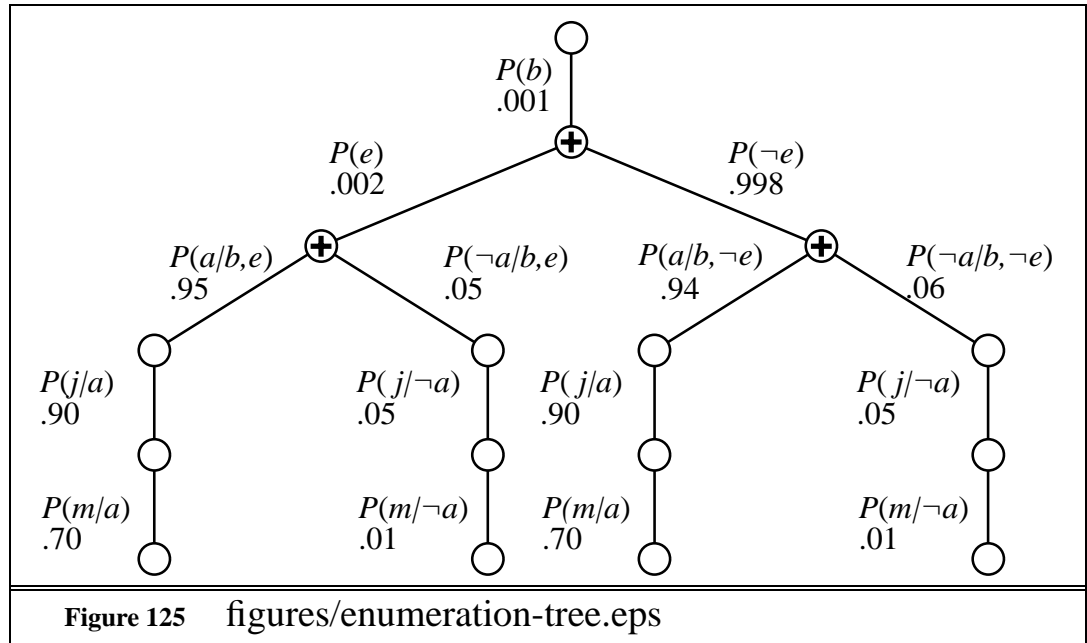
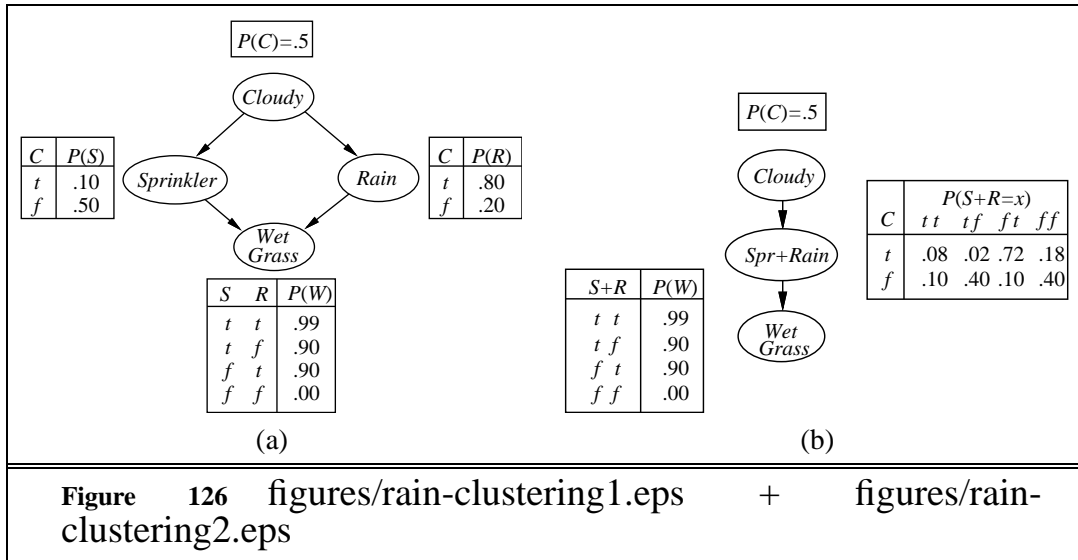


Figure 124 figures/continuous-net.eps

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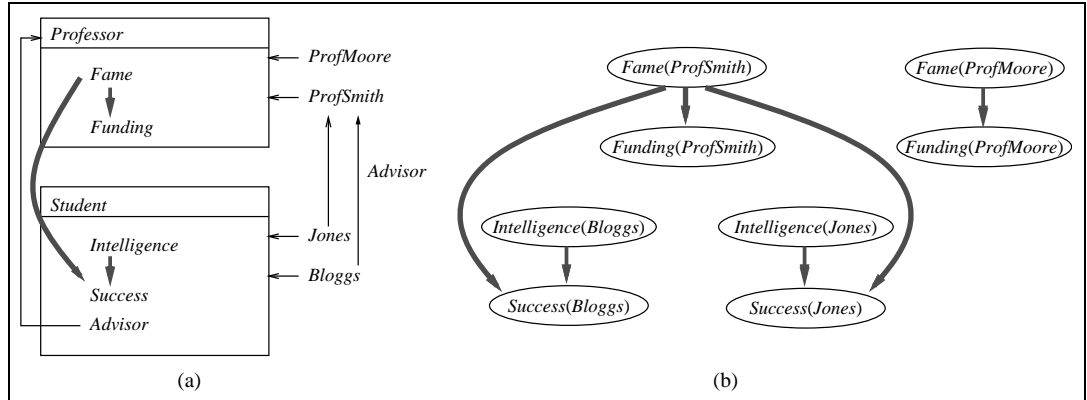
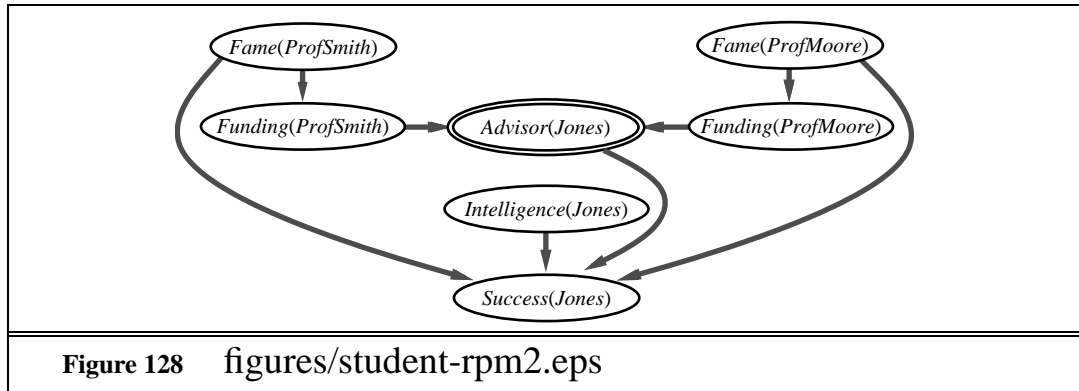


Figure 127 figures/student-rpm.eps

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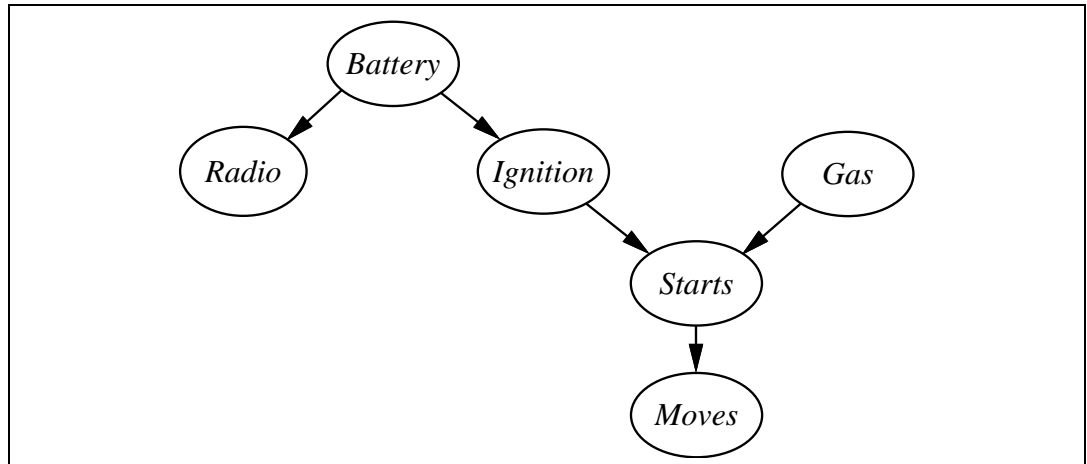
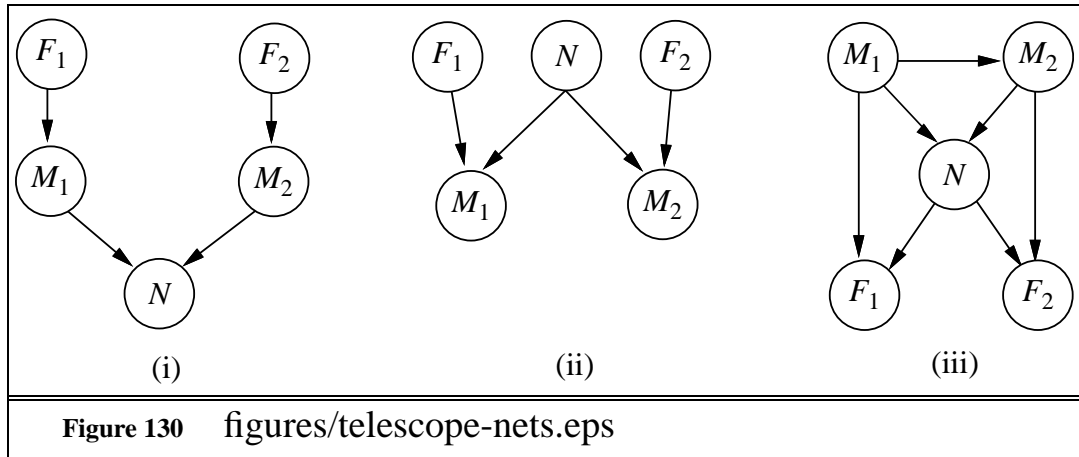
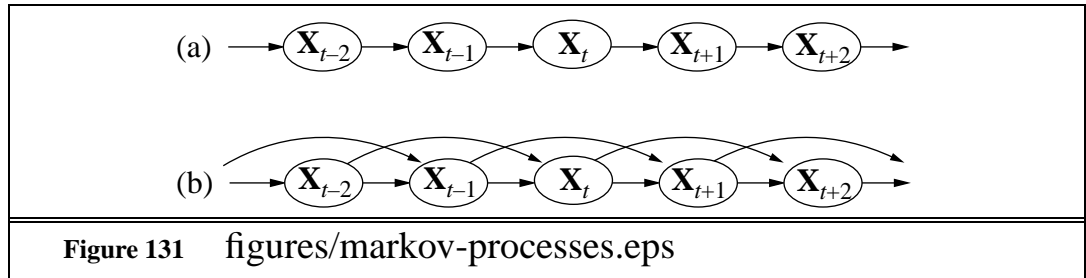


Figure 129 figures/car-starts.eps

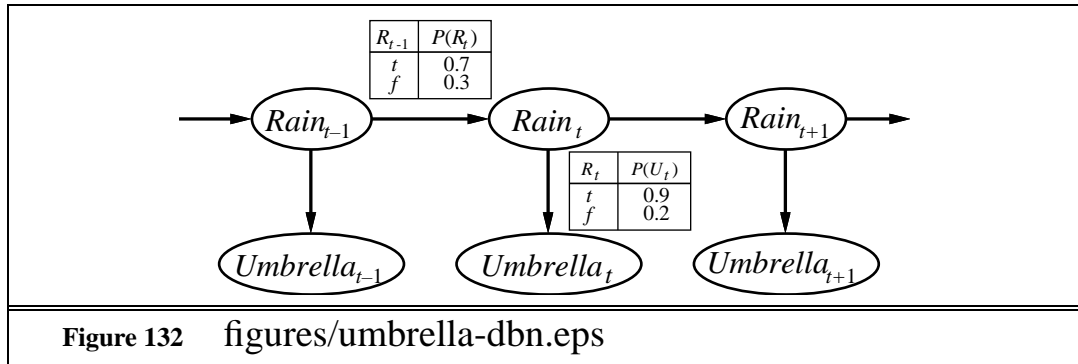
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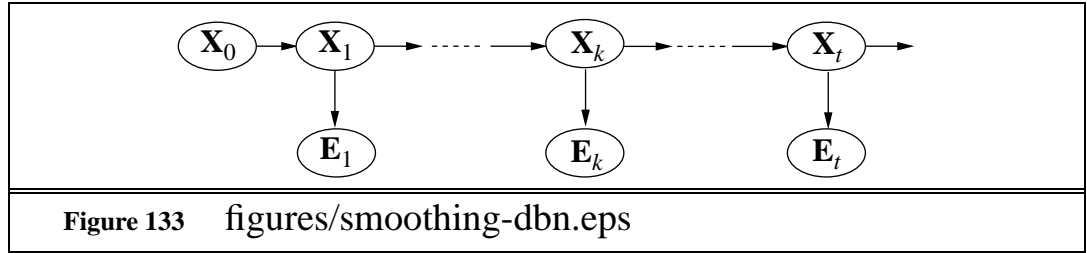
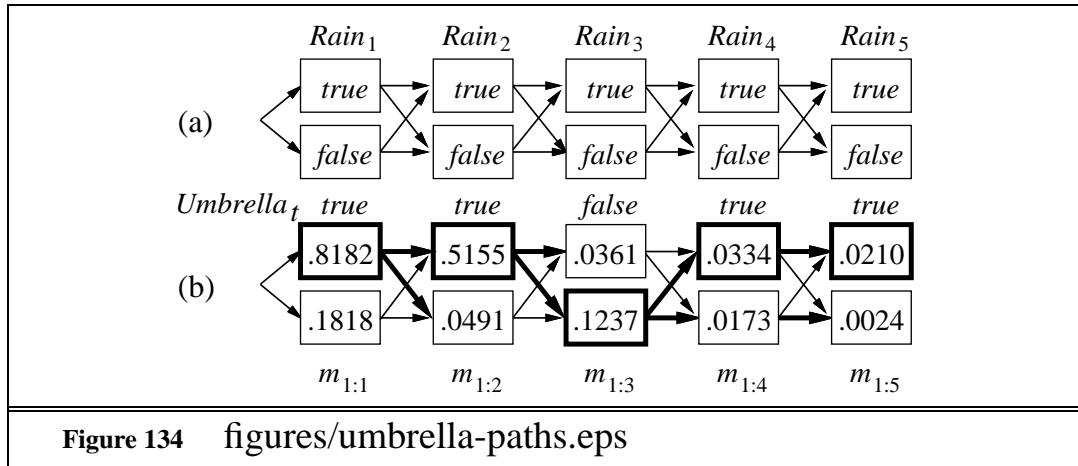
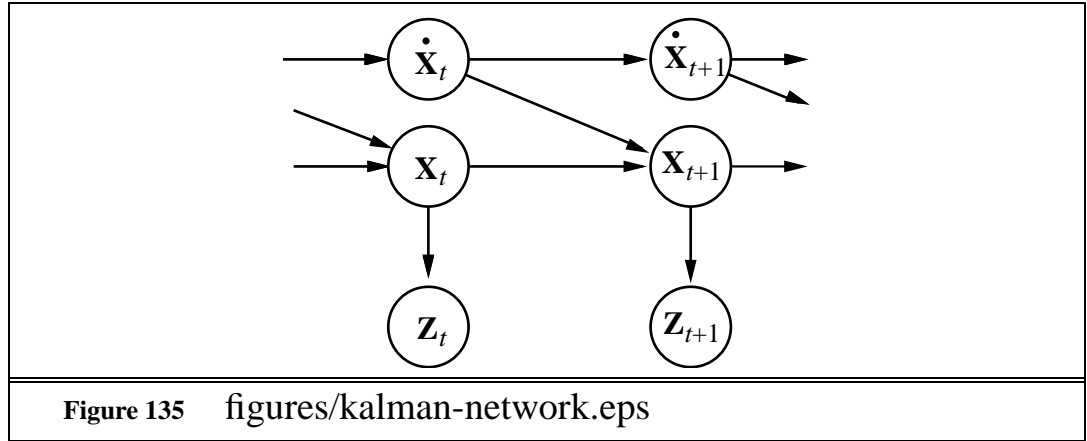


Figure 133 figures/smoothing-dbn.eps

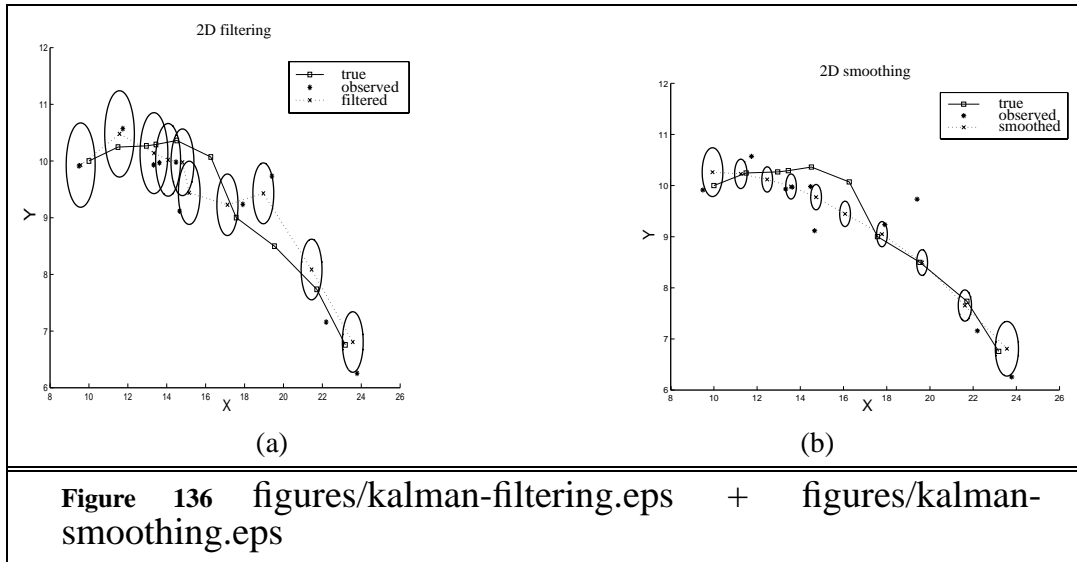
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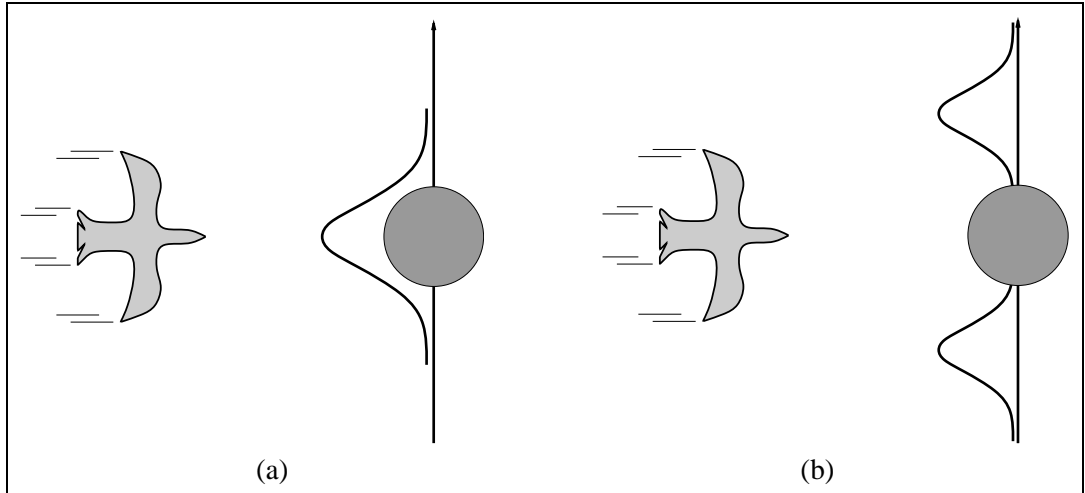
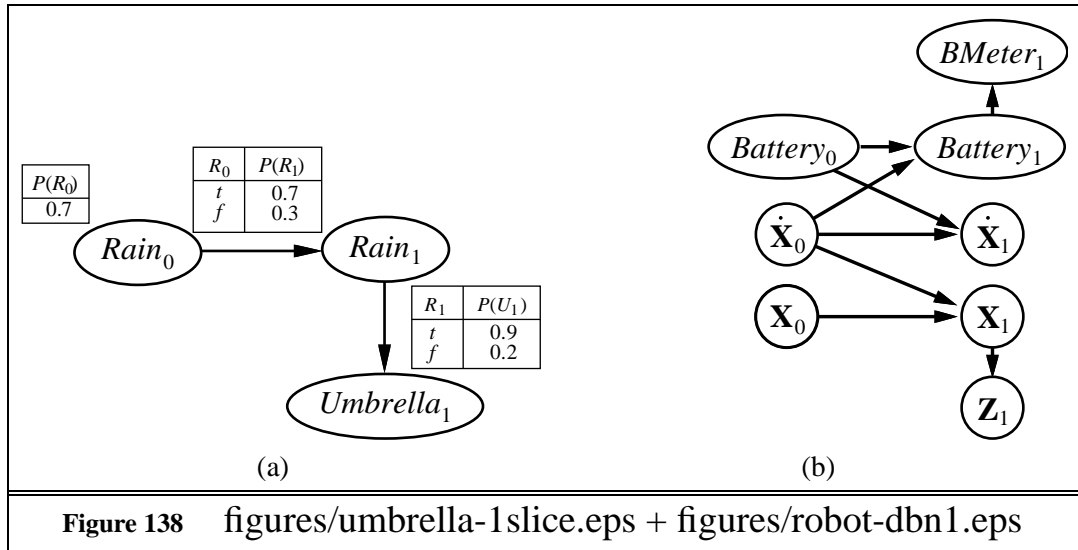
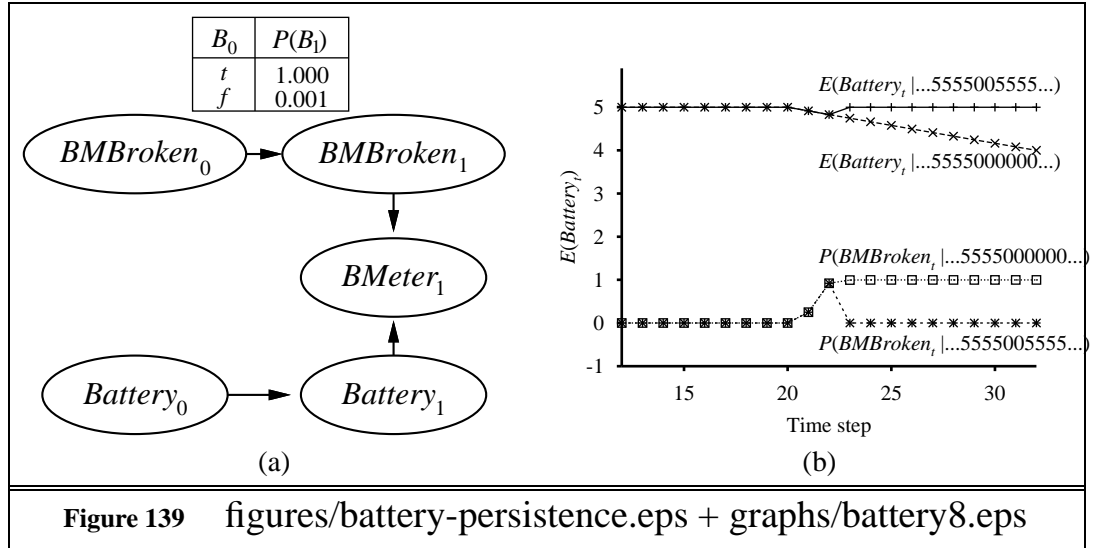


Figure 137 figures/kalman-bird1.eps + figures/kalman-bird2.eps

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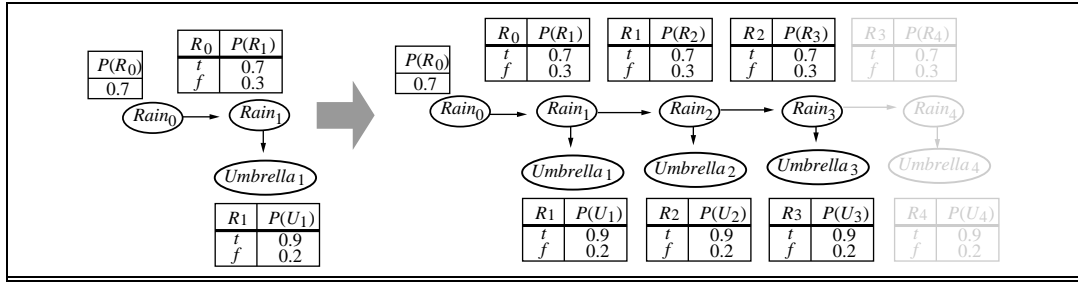
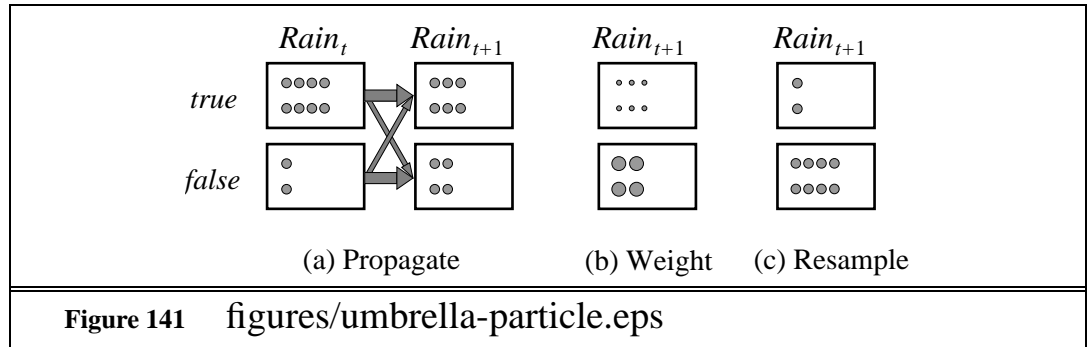
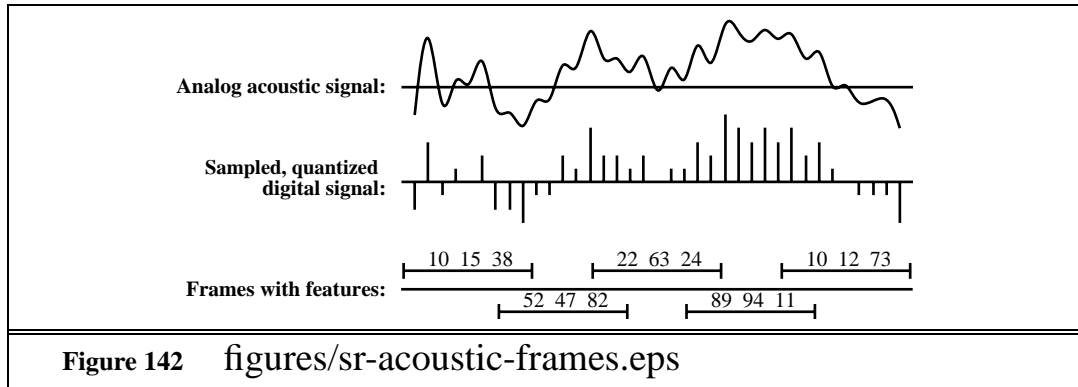


Figure 140 figures/dbn-unrolling.eps

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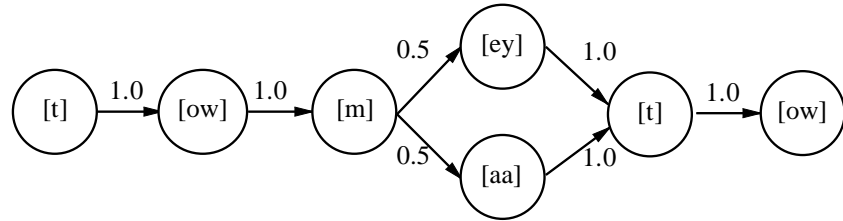


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(a) Word model with dialect variation:



(b) Word model with coarticulation and dialect variations

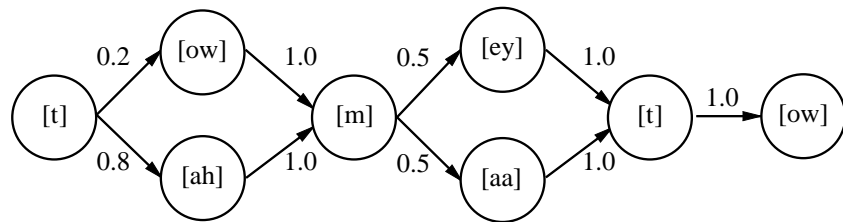
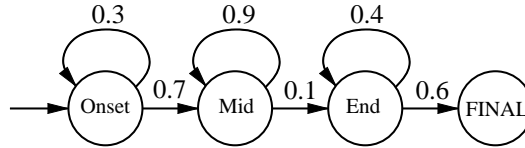


Figure 143 figures/sr-tomato.eps

Some text

Phone HMM for [m]:



Output probabilities for the phone HMM:

Onset:	Mid:	End:
$C_1: 0.5$	$C_3: 0.2$	$C_4: 0.1$
$C_2: 0.2$	$C_4: 0.7$	$C_6: 0.5$
$C_3: 0.3$	$C_5: 0.1$	$C_7: 0.4$

Figure 144 figures/sr-hmm.eps

Some text

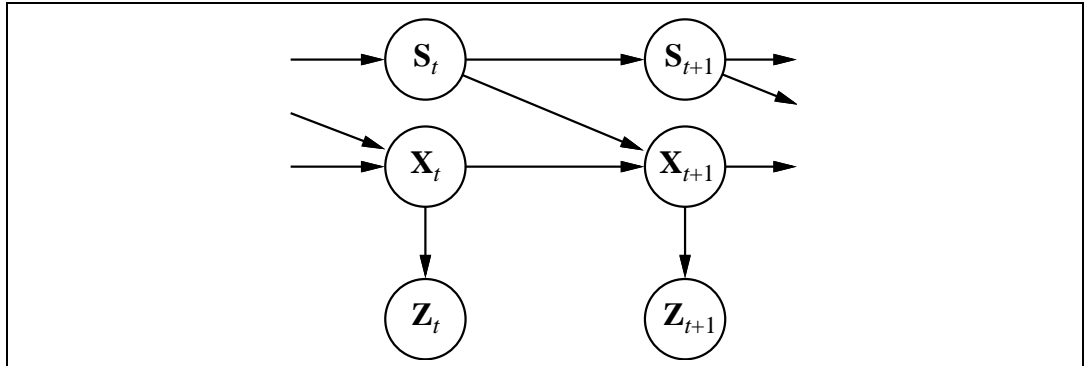
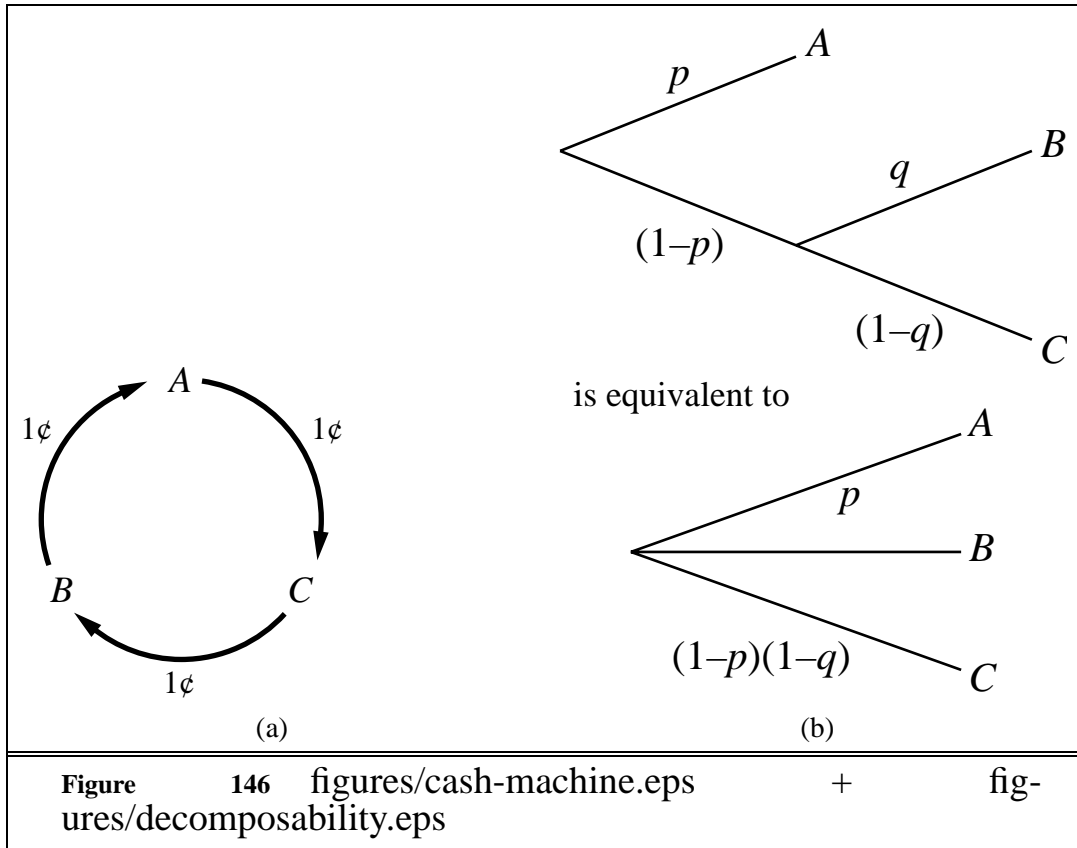


Figure 145 figures/switching-kf.eps

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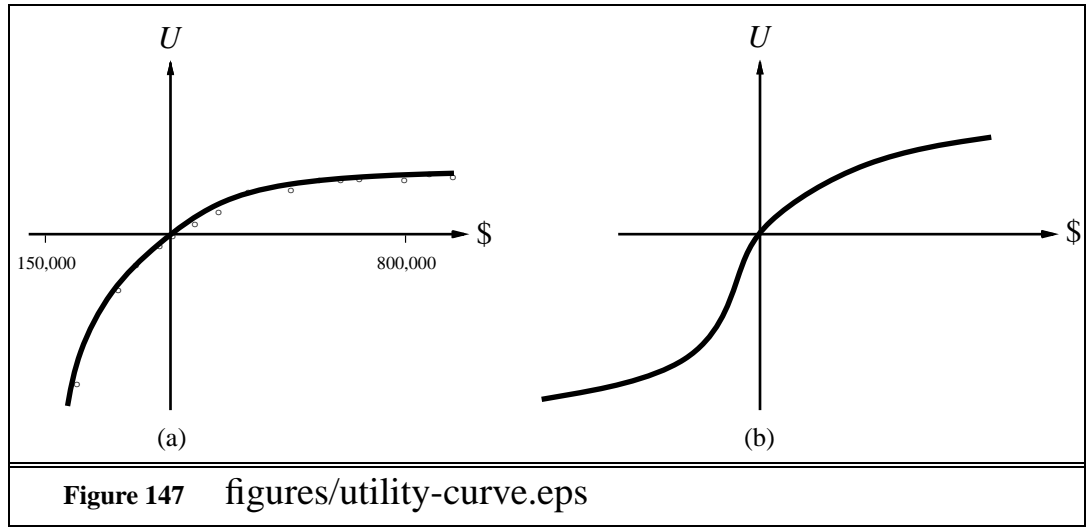
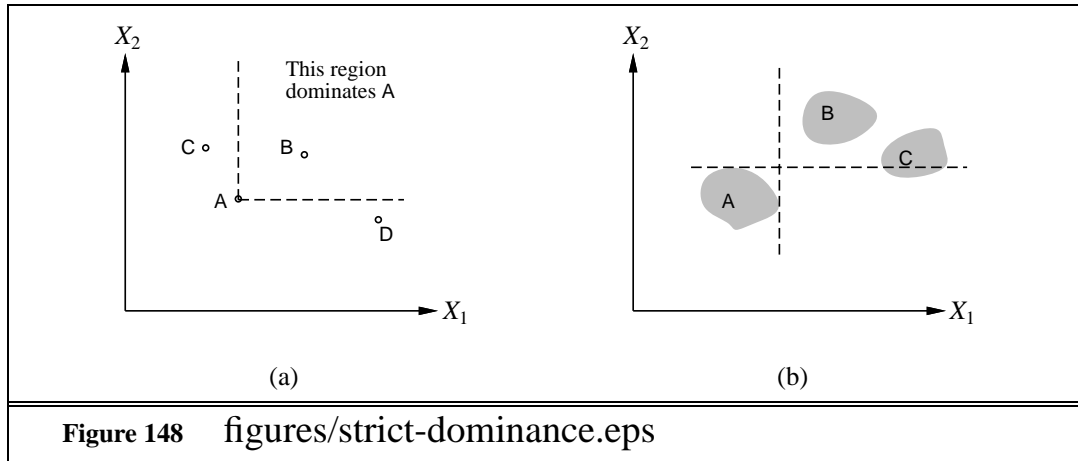


Figure 147 figures/utility-curve.eps

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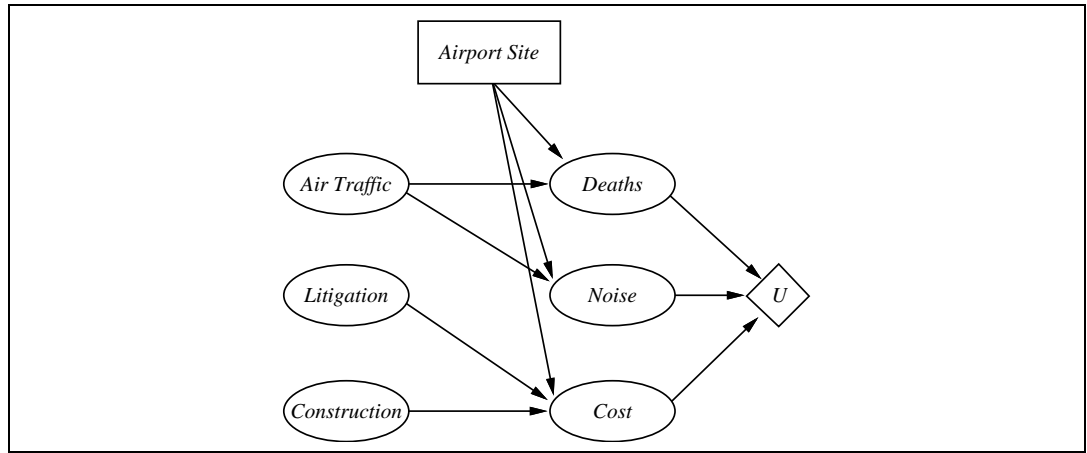


Figure 149 figures/airport-id.eps

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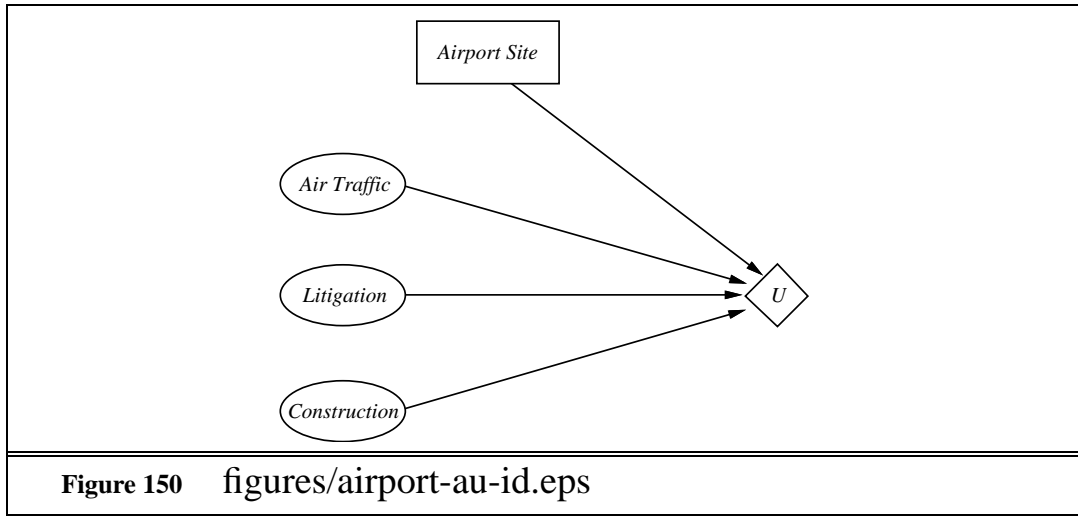
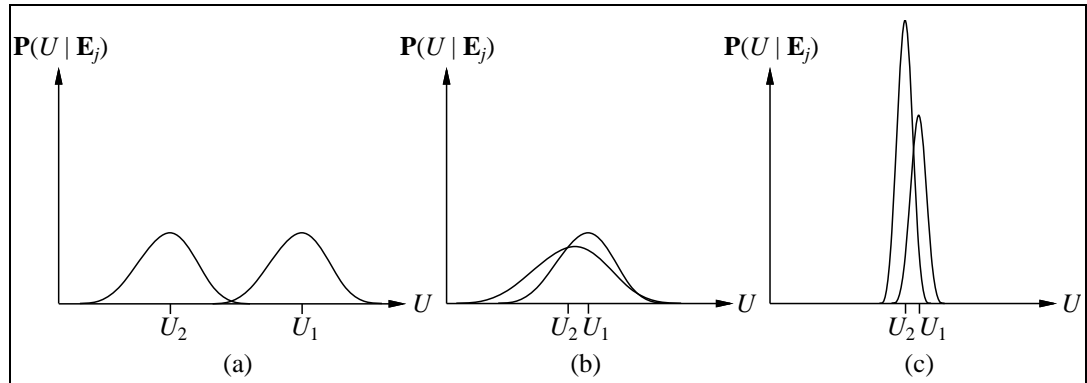
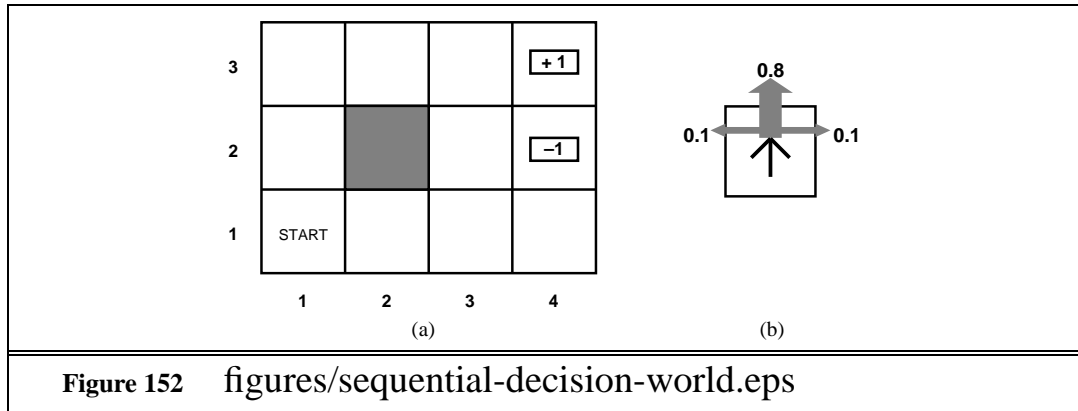


Figure 150 figures/airport-au-id.eps

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**Figure 151** figures/3cases.eps

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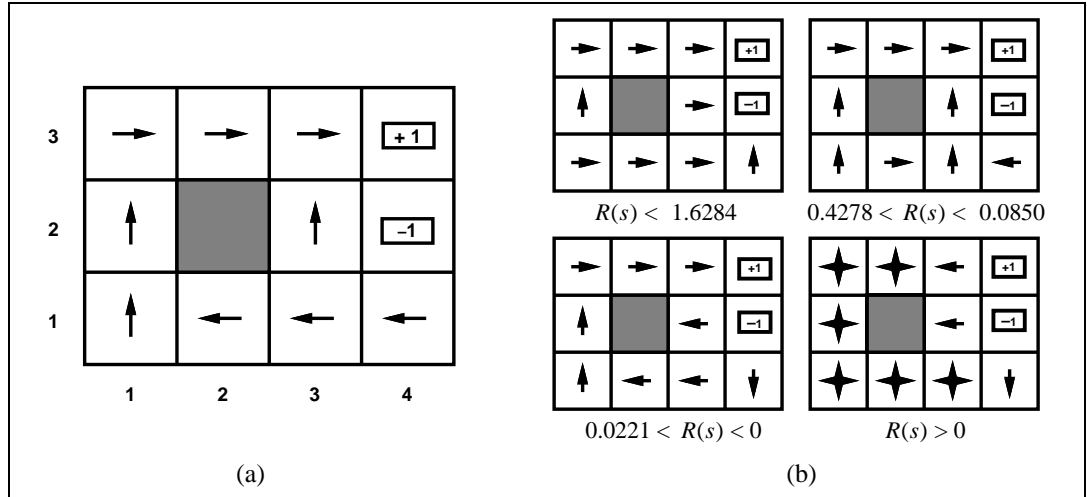


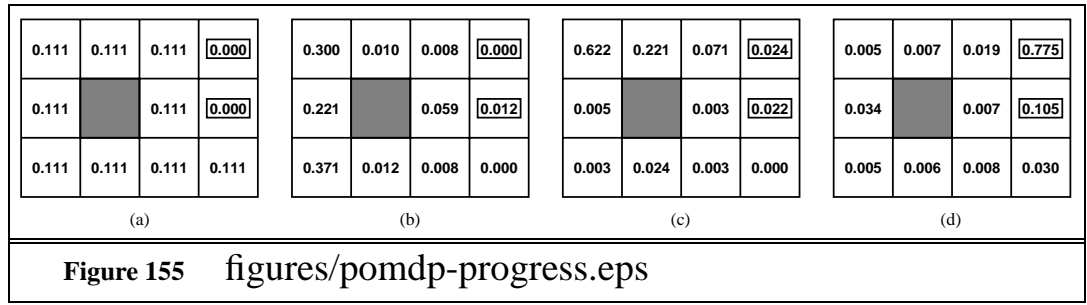
Figure 153 figures/sequential-decision-policies.eps

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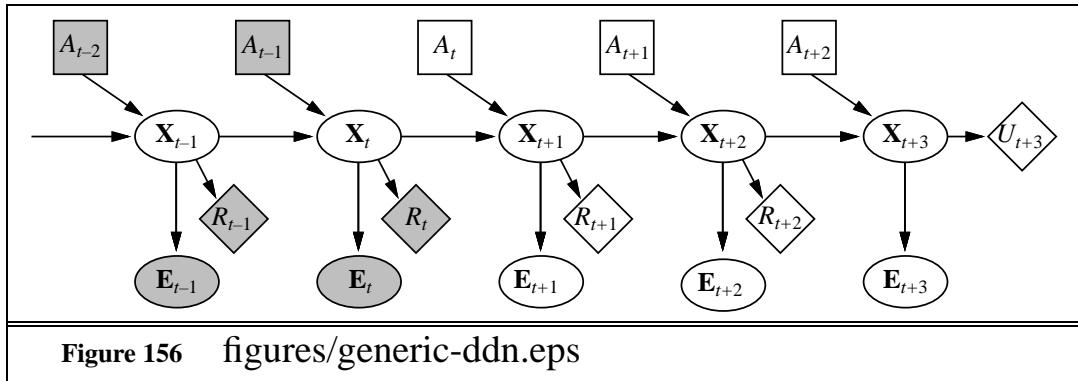
3	0.812	0.868	0.918	+ 1
2	0.762		0.660	-1
1	0.705	0.655	0.611	0.388
	1	2	3	4

Figure 154 figures/sequential-decision-values.eps

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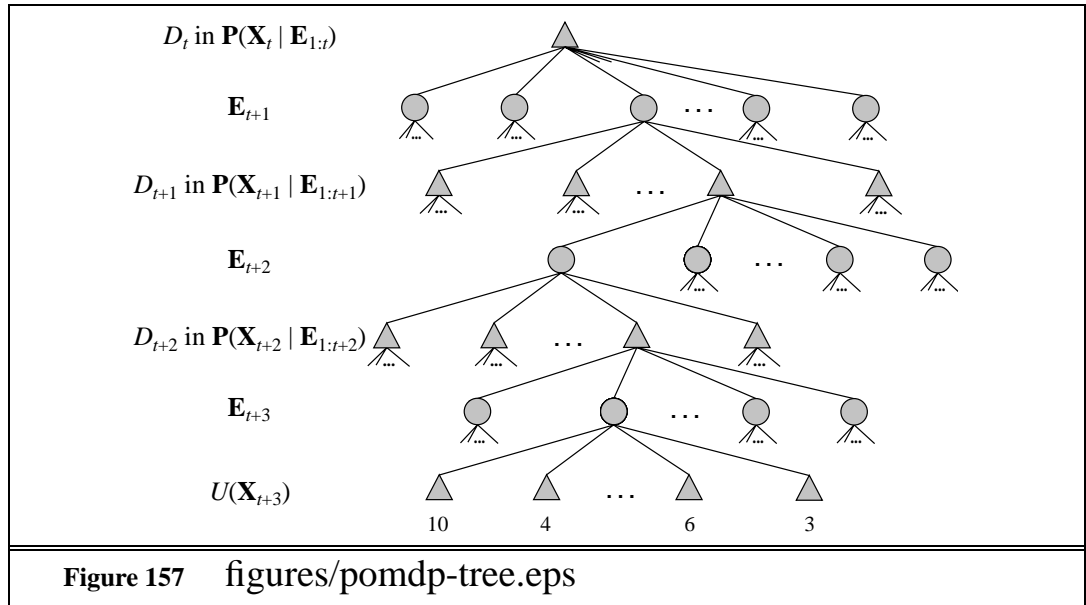


Figure 157 figures/pomdp-tree.eps

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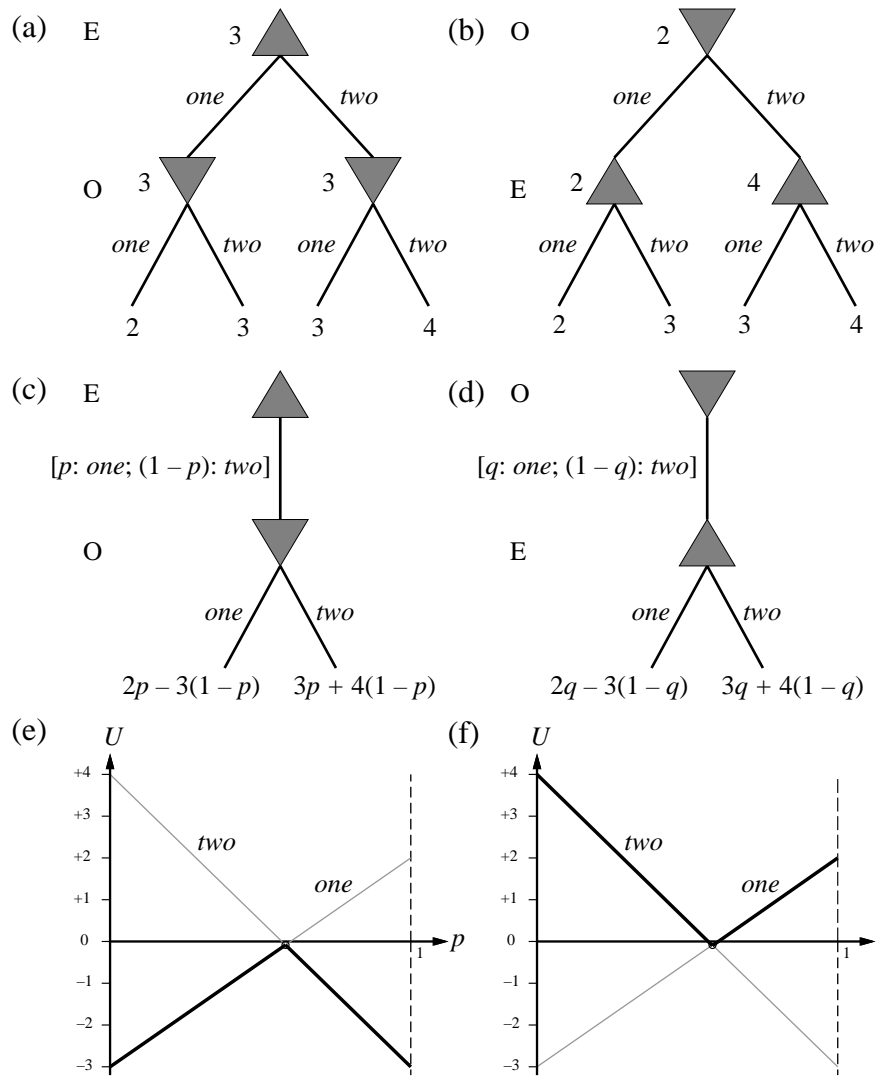


Figure 158 figures/morra-trees.eps