

BAB V

PENGUJIAN DAN ANALISIS

5.1 Uji Coba dan Analisa Hasil

Pengujian keakuratan program dapat dilihat dari hasil *fitness*. Pada penelitian ini, akan dianalisa pengaruh jumlah probabilitas *crossover* dan probabilitas mutasi terhadap nilai *fitness*. Data yang digunakan dalam pengujian ini terdapat pada tabel 5.1.

Pengujian Pengaruh Perubahan Peluang *Crossover* (Pc) dan Peluang Mutasi (Pm) terhadap Nilai *Fitness*. Uji coba dilakukan sebanyak 5 kali percobaan untuk masing-masing probabilitas. Tabel yang dibuat merupakan hasil rata-rata dari 5 kali percobaan. Hasil pengujian pada tabel 5.2.

	A	B	C	D
1	3,300000	225000	225000	75000,8
2	4,300000	300000	300000	100000,9
3	2,350000	150000	150000	50000,9
4	5,300000	375000	375000	125000,12
5	3,300000	225000	225000	75000,10
6	5,300000	375000	375000	125000,12
7	7,300000	525000	525000	175000,15
8	10,300000	750000	750000	250000,25
9	6,300000	450000	450000	150000,15
10	8,300000	600000	600000	200000,20
11	9,300000	675000	675000	225000,20
12	5,300000	375000	375000	125000,15
13	3,300000	225000	225000	75000,10
14	8,300000	600000	600000	200000,25
15	9,300000	675000	675000	225000,23
16	5,300000	375000	375000	125000,15
17	7,300000	525000	525000	175000,17
18	3,300000	225000	225000	75000,13
19	4,300000	300000	300000	100000,14
20	7,300000	525000	525000	175000,18
21	5,300000	375000	375000	125000,20
22	3,300000	225000	225000	75000,19
23	8,300000	600000	600000	200000,25
24	8,300000	600000	600000	200000,27
25	9,300000	675000	675000	225000,28

Tabel 5.1 Data pengujian

Tabel 5.2 Tabel Percobaan Pengaruh Perubahan Peluang *Crossover* (Pc) dan Peluang Mutasi (Pm) terhadap Nilai *Fitness*

pc	pm	percobaan ke					rata-rata
		1	2	3	4	5	
10	10	Rp6.144.901	Rp6.144.901	Rp6.144.901	Rp6.144.901	Rp6.144.901	Rp6.144.901
10	30	Rp6.144.901	Rp6.144.901	Rp6.144.901	Rp6.482.401	Rp6.189.901	Rp6.221.401
10	50	Rp6.144.901	Rp6.144.901	Rp6.144.901	Rp6.144.901	Rp6.144.901	Rp6.144.901
10	70	Rp6.364.901	Rp6.144.901	Rp6.437.401	Rp7.034.901	Rp6.144.901	Rp6.425.401
10	90	Rp6.509.901	Rp6.509.901	Rp5.724.901	Rp6.232.401	Rp6.432.401	Rp6.281.901
30	10	Rp6.144.901	Rp6.789.901	Rp6.144.901	Rp7.292.401	Rp10.119.868	Rp7.298.394
30	30	Rp6.144.901	Rp6.144.901	Rp6.684.901	Rp10.112.368	Rp10.112.368	Rp7.839.888
30	50	Rp6.514.901	Rp10.164.868	Rp6.702.401	Rp5.779.901	Rp7.292.401	Rp7.290.894
30	70	Rp9.607.368	Rp9.609.868	Rp7.189.901	Rp6.259.901	Rp6.164.901	Rp7.766.388
30	90	Rp6.424.901	Rp2.984.934	Rp6.494.901	Rp6.139.901	Rp6.144.901	Rp5.637.908
50	10	Rp6.144.901	Rp9.802.368	Rp10.112.368	Rp7.292.401	Rp10.112.368	Rp8.692.881
50	30	Rp10.112.368	Rp7.292.401	Rp10.112.368	Rp6.702.401	Rp6.344.901	Rp8.112.888
50	50	Rp6.872.401	Rp9.802.368	Rp3.607.434	Rp10.112.368	Rp10.112.368	Rp8.101.388
50	70	Rp6.182.401	Rp9.802.368	Rp7.292.401	Rp6.054.901	Rp9.802.368	Rp7.826.888
50	90	Rp6.762.401	Rp9.987.368	Rp9.734.868	Rp10.112.368	Rp7.262.401	Rp8.771.881
70	10	Rp6.702.401	Rp10.172.368	Rp9.802.368	Rp10.112.368	Rp10.112.368	Rp9.380.375
70	30	Rp9.802.368	Rp10.112.368	Rp9.802.368	Rp10.112.368	Rp6.494.901	Rp9.264.875
70	50	Rp10.179.868	Rp10.112.368	Rp9.802.368	Rp10.112.368	Rp10.232.368	Rp10.087.868
70	70	Rp6.144.901	Rp10.502.368	Rp6.709.901	Rp10.224.868	Rp10.112.368	Rp8.738.881
70	90	Rp10.112.368	Rp6.499.901	Rp10.402.368	Rp9.839.868	Rp10.087.368	Rp9.388.375
90	10	Rp10.112.368	Rp10.112.368	Rp9.802.368	Rp10.112.368	Rp10.112.368	Rp10.050.368
90	30	Rp10.112.368	Rp10.329.868	Rp10.112.368	Rp10.112.368	Rp10.112.368	Rp10.155.868
90	50	Rp10.402.368	Rp10.112.368	Rp9.802.368	Rp9.802.368	Rp10.402.368	Rp10.104.368
90	70	Rp10.112.368	Rp10.119.868	Rp10.414.868	Rp9.809.868	Rp10.112.368	Rp10.113.868
90	90	Rp10.244.868	Rp10.172.368	Rp10.372.368	Rp10.224.868	Rp9.879.868	Rp10.178.868

Tabel 5.2 Hasil Pengujian

Grafik Pengaruh Perubahan Peluang *Crossover* (P_c) dan Peluang Mutasi (P_m) terhadap Nilai *Fitness*

Pc dan Pm	Fitness
1030	6000000
1010	6000000
1030	6200000
1010	6000000
1030	6200000
1010	6000000
1030	6200000
1010	6000000
1030	7200000
1010	7500000
1030	7800000
1010	7500000
1030	7800000
1010	7500000
1030	5500000
1010	8500000
1030	8000000
1010	8000000
1030	8000000
1010	7800000
1030	8500000
1010	8800000
1030	9200000
1010	9000000
1030	9500000
1010	10000000
1030	8500000
1010	9000000
1030	9500000
1010	10000000
1030	10000000
1010	10000000
1030	10000000
1010	10000000
1030	10000000
1010	10000000
1030	10000000
1010	10000000

Gambar 5.1 grafik pengaruh Pc dan Pm terhadap nilai *fitness*.