

Comment:

Experiment7	Setting
Mutation type	0: Uniform 1: Normal
Crossover type	0: probabilistic crossover 1: Single point crossover 2: linear combination crossover
Local search type	0: Uniform 1: Normal
Local search pattern	0: best of genotype and multiple phenotypes 1: best of genotype and phenotype

Lamarck (N, Pc, Nls, 1)- SSGA (N, Pc)

[illegible]

Lamarck (N, Pc, Nls, N)- SSGA (N, Pc)

[illegible]

Lamarck (N, Pc, Nls, N)- Lamarck (N, Pc, Nls, 1)

[illegible]

SSGA (N, SPc)

[illegible]

Lamarck (N, SPc, Nls, 1)

This table is generated by mutation type: normal, crossover type: single point crossover and local search type: normal. The final phenotype is min (1 genotype, 1 phenotype).

[illegible]

Lamarck (N, SPc, Nls, N)

This table is generated by mutation type: normal, crossover type: single point crossover and local search type: normal. The final phenotype is min (1 genotype, 3 phenotypes).

[illegible]

Lamarck (N, SPc, Nls, 1)- SSGA (N, SPc)

[illegible]

Lamarck (N, SPc, Nls, N)- SSGA (N, SPc)

[illegible]

Lamarck (N, SPc, Nls, N)- Lamarck (N, SPc, Nls, 1)

Function	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination
F1	0.00%	0.00%	0.00%	20.00%	50.00%	40.00%	10.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	20.00%	20.00%	10.00%	10.00%	0.00%
F2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F5	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F6	0.00%	0.00%	0.00%	0.00%	30.00%	60.00%	30.00%	20.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	40.00%	50.00%	60.00%	10.00%	0.00%	0.00%
F7	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F8	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F9	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F10	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F11	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F12	0.00%	0.00%	0.00%	30.00%	70.00%	50.00%	50.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	20.00%	40.00%	80.00%	0.00%	0.00%
F13	0.00%	0.00%	0.00%	20.00%	50.00%	60.00%	70.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	50.00%	70.00%	40.00%	0.00%	0.00%
F14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F15	10.00%	60.00%	40.00%	0.00%	0.00%	20.00%	0.00%	30.00%	10.00%	30.00%	40.00%	50.00%	50.00%	40.00%	20.00%	0.00%	10.00%	0.00%	30.00%	30.00%
F16	0.00%	0.00%	0.00%	10.00%	20.00%	10.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.00%	10.00%	20.00%	10.00%	20.00%	0.00%	0.00%
F17	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F18	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F19	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F20	-10.00%	60.00%	20.00%	40.00%	10.00%	0.00%	30.00%	-20.00%	0.00%	40.00%	30.00%	60.00%	20.00%	20.00%	40.00%	20.00%	30.00%	40.00%	20.00%	-10.00%
F21	0.00%	0.00%	0.00%	10.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-10.00%
F22	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-10.00%	0.00%
F23	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	30.00%	-10.00%

SSGA (N, LCc)

Function	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination
F1	100.00%	100.00%	50.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	30.00%	100.00%	100.00%	60.00%	100.00%	100.00%	100.00%	100.00%	70.00%
F2	90.00%	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0.00%	0.00%	20.00%	10.00%	0.00%	0.00%	100.00%	100.00%	100.00%	0.00%
F3	0.00%	100.00%	80.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	50.00%	100.00%	100.00%	50.00%	90.00%	100.00%	100.00%	100.00%	80.00%
F4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F5	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F6	100.00%	100.00%	60.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	10.00%	100.00%	100.00%	80.00%	100.00%	100.00%	100.00%	100.00%	90.00%
F7	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F8	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F9	0.00%	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%	100.00%	0.00%
F10	0.00%	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%	100.00%	0.00%
F11	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F12	30.00%	20.00%	20.00%	40.00%	20.00%	20.00%	30.00%	10.00%	10.00%	10.00%	10.00%	10.00%	30.00%	0.00%	10.00%	20.00%	10.00%	30.00%	20.00%
F13	0.00%	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	100.00%	100.00%	100.00%	0.00%
F14	0.00%	0.00%	20.00%	10.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	10.00%	0.00%	10.00%	20.00%	0.00%	0.00%	10.00%
F15	60.00%	90.00%	70.00%	0.00%	0.00%	10.00%	0.00%	40.00%	80.00%	70.00%	70.00%	50.00%	60.00%	50.00%	80.00%	10.00%	0.00%	0.00%	80.00%
F16	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
F17	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
F18	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	90.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	90.00%
F19	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F20	50.00%	30.00%	60.00%	70.00%	40.00%	30.00%	60.00%	50.00%	30.00%	30.00%	50.00%	40.00%	40.00%	40.00%	50.00%	50.00%	60.00%	20.00%	50.00%
F21	60.00%	30.00%	60.00%	70.00%	30.00%	50.00%	30.00%	20.00%	20.00%	50.00%	50.00%	40.00%	50.00%	40.00%	40.00%	70.00%	20.00%	50.00%	40.00%
F22	0.00%	0.00%	0.00%	20.00%	20.00%	20.00%	10.00%	30.00%	40.00%	30.00%	30.00%	30.00%	10.00%	30.00%	40.00%	30.00%	20.00%	30.00%	30.00%
F23	30.00%	20.00%	20.00%	40.00%	20.00%	20.00%	30.00%	10.00%	10.00%	10.00%	10.00%	10.00%	30.00%	0.00%	10.00%	20.00%	10.00%	30.00%	20.00%

Lamarck (N, LCc, Nls, 1)

This table is generated by mutation type: normal, crossover type: linear combination crossover and local search type: normal. The final phenotype is min (1 genotype, 1 phenotype).

[illegible]

Lamarck (N, LCc, Nls, N)

This table is generated by mutation type: normal, crossover type: linear combination crossover and local search type: normal. The final phenotype is min (1 genotype, 3 phenotypes).

[illegible]

[illegible][illegible]

Faction	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination	combination
F1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F2	-30.00%	20.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	70.00%	0.00%	0.00%	50.00%	20.00%	20.00%	0.00%	0.00%	0.00%	0.00%	40.00%
F3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F4	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	30.00%	50.00%	0.00%
F5	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F6	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F7	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F8	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F9	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F10	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F11	0.00%	0.00%	0.00%	0.00%	10.00%	20.00%	20.00%	30.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%	60.00%	0.00%
F12	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F13	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F14	10.00%	-20.00%	10.00%	0.00%	10.00%	10.00%	-10.00%	-20.00%	-10.00%	0.00%	0.00%	-10.00%	0.00%	10.00%	0.00%	-10.00%	20.00%	0.00%	10.00%
F15	-20.00%	10.00%	-10.00%	0.00%	-10.00%	0.00%	-10.00%	0.00%	-10.00%	0.00%	0.00%	-10.00%	0.00%	-10.00%	0.00%	10.00%	-20.00%	0.00%	-10.00%
F16	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F17	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F18	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.00%	0.00%
F19	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
F20	20.00%	0.00%	20.00%	20.00%	-30.00%	-30.00%	-40.00%	-10.00%	20.00%	-10.00%	10.00%	10.00%	-30.00%	-60.00%	-10.00%	-10.00%	-10.00%	40.00%	30.00%
F21	0.00%	0.00%	-10.00%	0.00%	-20.00%	10.00%	-40.00%	10.00%	-40.00%	0.00%	0.00%	0.00%	-20.00%	-20.00%	0.00%	0.00%	-10.00%	-20.00%	0.00%
F22	-10.00%	-20.00%	0.00%	0.00%	-10.00%	-10.00%	-30.00%	10.00%											