

Generation N

Old Population

Rank

P_1	....	P_k	P_{k+1}	....	P_N
Ind. ?	....	Ind. ?	Ind. ?	....	Ind. ?

Discard

Velocity Update

**Tournament
Selection**

VPAC Crossover

Position Update

Parents

Offspring

Mutation

Ind. P_1

....

Ind. P_k

Ind. P_{k+1}

....

Ind. P_N

Generation N + 1

New Population