Some remarks:

- Biological model:
 Repair enzymes, mutator genes.
- There exists no deterministic control.

 Instead, strategy parameters evolve as object variables do.
- There is only an indirect link between fitness and useful strategy parameter settings.
- $\vec{\sigma}$, $\vec{\alpha}$ are conceivable as an internal model of the local topology.
- Standard strategy: $n_{\sigma} = n$, $n_{\alpha} = 0$.
- For correlated mutations:
 - $-\vec{\sigma}_c \sim \vec{N}(\vec{0}, \mathbf{C})$ is generated by a multiplication of the uncorrelated random vector $\vec{\sigma}_u$ by n_a rotation matrices (Schwefel 1981, Rudolph 1992).

$$\vec{\sigma}_c = \prod_{i=1}^{n-1} \prod_{j=i+1}^n \mathbf{R}(\alpha_{ij}) \cdot \vec{\sigma}_u .$$

- Exactly the feasible (positive definite) correlation matrices C can be created this way (Rudolph 1992).