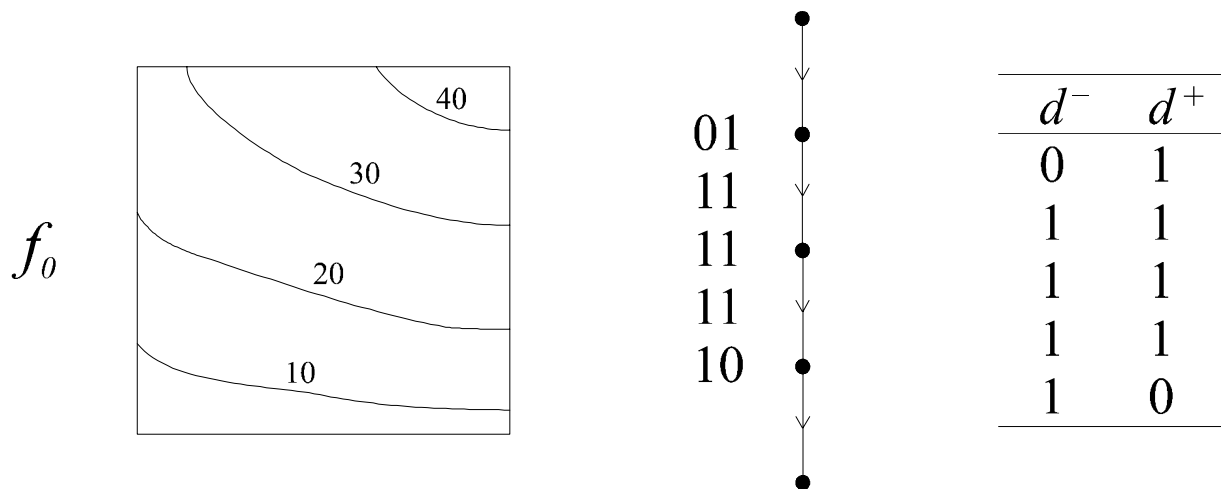


Complexité topologique



$$c(f) = w(f) + b(f) - s(f)$$

$$w(f) = \sum_{i < j} \left| d_i^- - d_j^- \right| + \left| d_i^+ - d_j^+ \right|$$

$$b(f) = \sum_i \left| d_i^- - d_i^+ \right|$$

$$s(f) = \begin{cases} 1 & \text{si } \sum_{i=0}^{n-1} \sum_{j=0}^{n-1} \delta(n_{ij}(d^-, d^+), n_{ij}(d^+, d^-)) = n^2 \\ 0 & \text{sinon} \end{cases}$$

avec

$$n_{ij}(d, d') = \sum_{k=1}^n \delta(i, d_k) \delta(j, d'_k)$$

$$c(f_0) = 2n - 1 \quad \forall n$$

$$C(f) = c(f) - c(f_0)$$