

Crow search algorithm implementation (Cont.)

- ▶ **State 1:** If crow j does not watch crow i when it follow it, crow i will discover the food's hiding place of crow j and the crow i will update its position as follow.

$$x_i^{(t+1)} = x_i^{(t)} + r_i * fl_i^{(t)} * (m_j^{(t)} - x_i^{(t)}) \quad (1)$$

Where r_i is random number in the interval $[0,1]$, $fl_i^{(t)}$ is the flight length and $m_j^{(t)}$ is the memory of crow j .

The value of fl is responsible for the exploration and exploitation processes, if $fl < 1$, it means the crow i will move toward crow j which lead to local search while if

$fl > 1$ it means the crow i will move far from crow j which leads to global search.



Crow Search

JG Myers



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