nique that is very efficient for routing is AntNet [4]. (nutrients) from the environment. The activity which uses mobile agents that mimic the behavior of directly influences the differential equation system by

nutrient for which no molecular even be stimulated by noise. Basically, ARAS works as fol

lows. Like all dynamic systems,

 $= f(m_1...m_M) \times g(\alpha) + \eta,$

Attractor Selection (ARAS) was proposed by Kashi- an analogy with a set of electromagnets (attractors) to

ematical, it is easiest described with a simplified course ment conditions. Thus, the abstract formulation of ous input space to a discrete output space, as depicted

The technique proposed here is intrinsically applica ble to the routing infrastructure of packet-switched

selection of the appropriate attractor by an activity many nath depending on the current environment term a, which indicates how well the current system conditions. This is the path with the best metric state corresponds to the considered influencing factors (smallest latency or highest available bandwidth) and

COMMUNICATIONS OF THE ACM HARD 2000, You. 49, No. 3 65

Input Image



