ANT ROUTING WITH DISTRIBUTED GEOGRAPHICAL LOCALIZATION OF KNOWLEDGE IN AD-HOC NETWORKS

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Applications of Evolutionary Computation;
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We introduce an alternative way of knowledge management for ant routing in ad-hoc networks. In our approach, the knowledge about paths gathered by ants is connected with geographical locations and exchanged between nodes as they move across the network. The proposed scheme refers to the usage of a pheromone by real ants: the pheromone is left on the ground and used by ants in its surroundings. Our experiments show that the proposed solution may improve the overall performance of the underlying ant routing mechanism.

Słowa kluczowe: -
Strona www:
http://rd.springer.com/chapter/10.1007%2F978-3-642-01129-0_14/lookinside/000.png