Abstract

This paper gives you the overview of the subfield of artificial intelligence which is called as "SWARM INTELLIGENCE". This is so called because it is named after the inspiration taken from the working behavior of the swarms. The term "swarm" denotes the group or aggregation of insects or animals or birds which works together so as to complete the difficult tasks in an efficient manner which are not possible to be completed as an individual entity. This working behavior of swarms has influenced the researchers to solve their problems in robotics, telecommunications, computer science, networking and various other technical fields. Apart from it, algorithms have been proposed to solve various complex
problems which are having resemblance to swarm intelligence, in their working behavior. In this paper, a brief description of the working of these algorithms is given.

References

- Gainni Di Caro, Frederick Ducatelle and Luca Maria Gambardella, "SWARM INTELLIGENCE FOR ROUTING IN MOBILE AD HOC NETWORKS"; Instituto Dalle Molle di Studi sull'Intelligenza Artificiale (IDSIA) Galleria2, CH-6928 Manno-Lugano, Switzerland.
- Xiaohui Hu, Yuhui Shi, Russ Eberhart, "Recent Advances in Particle Swarm Intelligent Routing in Communication Networks using Swarm Intelligence".
- Rajani Muraleedharan and Lisa Ann Osadciw, "Sensor Communication Network using Swarm Intelligence"; Department of electrical engineering and computer science.

Index Terms

Computer Science
Information Sciences
Keywords
Swarm  Swarm Intelligence  Stigmergy  Pheromone  Paradigm