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Intelligence And

**Swarm**

Ant Colony

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## **Swarm Intelligence And Ant Colony**

The workers carry out the various tasks of the colony: foraging, nest maintenance, larvae care, defense, etc. It is by the observation of the foraging behavior of ants that in 1992 Marco Dorigo proposed the Ant colony optimization algorithm, contributing to the

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metaheuristic studies  
and to what later will  
be defined Swarm  
Intelligence.

**Swarm intelligence:  
Inside the ant colony  
| by Fabrizio ...**

Swarm intelligence is a  
revolutionary  
technique for solving  
optimization problems  
that formerly took its  
inspiration from the  
biological examples  
that can be observed in  
nature, such as ant

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colonies, flocks of birds, fish schools and bee hives, where a number of individuals with limited capabilities are able to come to intelligent solutions for complex problems.

**Ant Colony  
Optimization: A  
Swarm Intelligence  
based Technique**

Examples of swarm intelligence in natural systems include ant colonies, bird flocking,

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hawks hunting, animal herding, bacterial growth, fish schooling and microbial intelligence. The application of swarm principles to robots is called swarm robotics, while 'swarm intelligence' refers to the more general set of algorithms.

## **Swarm intelligence - Wikipedia**

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Swarm Intelligence books, The series of biannual international conferences “ANTS - International Conference on Ant Colony Optimization and Swarm Intelligence”, now in its sixth edition, was started ten years ago, with the organization of ANTS'98.

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READING: Swarm  
Intelligence by  
Eberhart et al, Morgan  
Kaufmann. Swarm  
Intelligence, From  
Natural to Artificial  
Systems by Bonabeau,  
Dorigo, Theraulaz,  
Oxford University  
Press. Papers: A  
Simplified  
Recombinant PSO Ant  
colonies for the

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## **Swarm Intelligence and Ant Colony Optimisation**

Ant Colony

Optimization and

Particle Swarm

Optimization represent

two widely used Swarm

Intelligence (SI)

optimization

techniques.

Information processing

using Multiple-Valued

Log

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**Swarm intelligence  
versus direct cover  
algorithms in ...**

Ants—swarm intelligence An ant's life. by Paula Weston. Steve Jurvetson, flickr.com. The behaviour of ants has long fascinated scientists. And why not? These insects have the strength to carry food up to seven times their own body weight, and set up

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amazingly complex colonies, with social 'castes' in which every member has a role.

**Ants: swarm intelligence - creation.com**

One primary reason why ants swarm is to collect food for the colony. Swarm intelligence is highly beneficial to insects like ants for food collection for many reasons. A swarm of

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ants can collectively find the shortest, easiest path to the best food source and coordinate foraging efforts.

## **What Causes Swarming Ants? | Sciencing**

One variation on this approach is the bees algorithm, which is more analogous to the foraging patterns of the honey bee, another social insect. This

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algorithm is a member of the ant colony algorithms family, in swarm intelligence methods, and it constitutes some metaheuristic optimizations.

**Ant colony optimization algorithms - Wikipedia**

Swarm intelligence (SI) originated from the study of colonies, or swarms of social

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organisms. ... Other applications of ant colony optimization include routing optimization in telecommunications networks, graph coloring, scheduling and solving the quadratic assignment problem. Studies of the nest building of ants and bees resulted in the ...

**Ample Learning with  
Parvash Kumar:**

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**Intelligence And  
Swarm Intelligence**

The papers cover theoretical and foundational aspects of computational intelligence and related disciplines with special focus on swarm intelligence and are devoted to behavioral models of social insects and new algorithmic approaches, empirical and theoretical research in swarm intelligence.

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applications such as ant colony optimization or particle swarm optimization, and theoretical and experimental research in swarm robotics systems.

## **Ant Colony Optimization and Swarm Intelligence: 6th ...**

“many minds are better than one”,  
Swarm Intelligence is an emerging concept

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of biologically-inspired artificial intelligence based on the collective behavior of social colonies. It studies decentralized, self-organized systems (e.g., a swarm of honey bees, an ant colony, a flock of birds) that can move quickly in a coordinated manner.

**Swarm Intelligence  
and real-life  
applications - Rick's  
Cloud**

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Artificial

Optimisation

In each one, swarm intelligence blends global and local insight to improve how businesses make decisions. Swarm intelligence is a form of artificial intelligence (AI) inspired by the insect kingdom. In nature, it describes how honeybees migrate, how ants form perfect trails, and how birds flock.

**How Swarm**

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Intelligence And

**Global and Local**

**Insight**

Zhang and Feng presented a hybrid framework ( Zhang and Feng, 2009) which combines SVM ( Cortes and Vapnik, 1995) and ant colony clustering for increasing the performance of IDS. Typical SVM techniques when used for clustering in intrusion detection, map the network data as data

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points in a  
multidimensional  
space.

**Swarm intelligence  
in intrusion  
detection: A survey**

...

Satellite swarm, swarm  
intelligence... Sounds  
like a match made in  
heaven. Well, near-  
earth heaven, at least.  
... [ant colony] system  
with respect to the GA  
system that focuses  
only on the best ...

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**How Ants Can  
Control Satellites.  
Despite ants having  
tiny ...**

Swarm Intelligence 9th  
International  
Conference, ANTS  
2014, Brussels,  
Belgium, September  
10-12, 2014.  
Proceedings

**Swarm Intelligence |  
SpringerLink**

Swarm intelligence is a  
form of collective

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intelligence observed in some collections of organisms, such as flocks of birds, schools of fish, ant colonies, herds of bisons, or packs of wolves [39 ]. Swarms of organisms display abilities not shown by individuals.

**Swarm Intelligence -  
an overview |  
ScienceDirect Topics**

Second, although swarm intelligence research has



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undoubtedly produced a 2 number of interesting and promising research directions, we think it is fair to say that its most successful strand is the one known as "ant colony optimization". Ant colony optimization, first introduced in the early 1990s as a novel tool for the approximate solution of discrete optimization problems, has recently seen an

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explosion in the number of its applications, both to academic and real-world problems, and is currently being ...

**Ant Colony  
Optimization and  
Swarm Intelligence:  
4th ...**

My smart ant colony seems to be fed up of me observing and filming them continuously. ...

Changing the world

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Intelligence And  
through swarm

intelligence: Rick

Falkvinge at TEDxOslo

2013 - Duration: 18:21.

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