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In computational
science, particle
swarm optimization

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(PSO) is a computational method that optimizes a problem by iteratively trying to improve a candidate solution with regard to a given measure of quality. It solves a problem by having

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a population of candidate solutions, here dubbed particles, and moving these particles around in the search-space according to simple mathematical formulae ...

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Particle swarm
optimization (PSO)

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... Someone called
it as swarm
intelligence. All of
the simulations
utilized local
processes, such as

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those modeled by cellular automata, and might underlie the unpredictable group dynamics of social behavior.

Some popular examples are flocks and boids. Both of the simulations were created to interpret the

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movement of
organisms in a bird
flock or fish school
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Particle Swarm
Optimization

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characterized into
the domain of
Artificial
Intelligence. The
term 'Artificial
Intelligence' or
'Artificial Life'
refers to the theory
of simulating
human behavior
through
computation. It

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involves designing
such computer
systems which are
able to execute
tasks which require
human intelligence.

[\(PDF\) Codes in
MATLAB for
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Optimization](#)

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Swarm intelligence (SI) is the collective behavior of decentralized, self-organized systems, natural or artificial.

The concept is employed in work on artificial intelligence. The expression was introduced by

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Gerardo Beni and
Jing Wang in 1989,
in the context of
cellular robotic
systems.. SI
systems consist
typically of a
population of
simple agents or
boids interacting
locally with one
another ...

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Optimization
(PSO) is a
technique used to
explore the search
space of a given
problem to find the

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settings or
parameters
required to
maximize a
particular objective.

This technique, first
described by

James Kennedy
and Russell C.

Eberhart in 1995

[1], originates from

two separate

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concepts: the idea
of swarm
intelligence based
off the observation
of swarming habits
by certain ...

[Swarm Intelligence](#)

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Swarm Intelligence
is the principal peer
reviewed
publication
dedicated to
reporting research
and new
developments in
this
multidisciplinary
field. The journal
publishes original

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research articles
and occasional
reviews on
theoretical,
experimental, and
practical aspects of
swarm intelligence.

It offers readers
reports on
advances in the
understanding and
utilization of

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systems that are
based ...

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[A Comprehensive
Review of Swarm
Optimization
Algorithms](#)

with reasonable
computational cost
[13]. Most
metaheuristic

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algorithms such as particle swarm optimization (PSO), the genetic algorithm (GA), and ant colony optimization are inspired by nature [14]. Such algorithms are widely used to solve optimization

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problems.

According to the
literature, PSO and
GA are highly
popular for solving
DG allocation

[pyswarms · PyPI](#)

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Optimization;
Scheduling and

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timetabling; Swarm
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journal in swarm
intelligence, nature-
inspired
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swarm intelligence.

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as novel and
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applications.

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Intelligence, SI??

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Beni ??? Wang ?

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Swarm intelligence refers to the collective behavior of decentralized

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systems and can be used to describe both natural and artificial systems. Specific algorithms for this class of system include the particle swarm optimization algorithm, the ant colony optimization algorithm, and

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artificial bee colony
algorithm. Each of
the previous
algorithms was
inspired by the
natural, self-
organized ...

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Publication: IEEE
Computational
Intelligence
Magazine (CIM)
Issue: Volume 15,
Issue 1 - February
2020 Pages:

52-63. Abstract:
Ant colony
optimization is a
swarm intelligence
metaheuristic

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inspired by the foraging behavior of some ant species. Ant colony optimization has been successfully applied to challenging optimization problems. This ...

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Volume 35, Issue 2
(2021) Research
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Threats on

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Autonomous
Vehicles . A.

Seetharaman, Nitin
Patwa, Veena

Jadhav, A. S.

Saravanan &

Dhivya Sangeeth.

Pages: 105-132.

Published online:

09 Dec 2020.

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[Linear Optimization](#)

Particle Swarm
Optimization (and
see the original
1995 PSO paper

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by James Kennedy
and Russ Eberhart)

searches a
multidimensional
solution space.

Somewhat like a
genetic algorithm,
but the PSO's
search points move
as a swarm
through the space
with a velocity,

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altered by steering
accelerations. See
also this PSO
demo applet. The
use of Flocks to
drive a Geographic
Analysis Machine
(1998) by James ...

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“Multitasking Multi-
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Optimization”.
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IEEE Congress on
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Computation
(CEC), 2019. R. T.
Liaw & C. K. Ting,
“Evolutionary
manytasking

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optimization based
on symbiosis in
biocoenosis”. AAAI
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Intelligence, 2019.

C. Wang, H. Ma, G.
Chen & S.
Hartmann.

“Evolutionary
Multitasking for
Semantic Web

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based MOO
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algorithms was

compared with
existing state-of-art
MOO algorithms

Data Mining,
Pattern

Recognition,

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units) Collective

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computation,
collective action,
and principles of
self-organization in
social agent
systems.

Algorithms for
combinatorial
optimization
problems, division
of labour, task
allocation, task

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switching, and task
sequencing with
applications in
security, routing,
wireless and ad
hoc networks and
distributed
manufacturing.
This course is
equivalent to ...

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