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Constrained Nonlinear Optimization Algorithms - MATLAB
MATLAB (matrix laboratory) is a multi-paradigm numerical computing environment and proprietary programming language developed by MathWorks. MATLAB allows matrix manipulations, plotting of functions and data, implementation of algorithms, creation of user interfaces, and interfacing with programs written in other languages, including C, C++, C# ...

MATLAB - Wikipedia
Structural Dynamics, Other: Matlab Scripts: Free vibration of a single-degree-of-freedom system, exact method. free.m free.pdf: Free vibration of a multi-degree-of-freedom system, exact method.

Vibrationdata Matlab Page
In computational science, particle swarm optimization (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.

Particle swarm optimization - Wikipedia
I switched to R voluntarily, to be able to user data frames â€" these showed up in Matlab only a few years ago, and even so, not in Matlab proper, but in the (not-free) Statistics Toolbox add-on.

Interview with a forced convert from Matlab to R - Burns
I have a bibtex database of optimization references (900K) available online. These are mostly interior point references. A searchable version of this bibliography is also available.

Optimization and Operations Research - rpi.edu
The terminology optimization method used in this paper refers to whether or not the explicit objective functions are formulated. For simulation-based optimization, the objective functions are often in the form of implicit equations.

General frameworks for optimization of plastic injection
(assuming x is a scalar variable or affine expression) it will be recognized by CVX as a convex expression, and therefore can be used in (appropriate) constraints and objectives.

The DCP ruleset â€" CVX Users' Guide - cvxr.com
16.05.2006 A neural network is an interconnected group of biological neurons. In modern usage the term can also refer to artificial neural networks, which are constituted of artificial neurons.

- Advanced Source Code . Com
Here is a common problem: you have some machine learning algorithm you want to use but it has these damn hyperparameters. These are numbers like weight decay magnitude, Gaussian kernel width, and so forth.

dlib C++ Library: A Global Optimization Algorithm Worth Using

Swarm-based algorithms emerged as a powerful family of optimization techniques, inspired by the collective behavior of social animals. In particle swarm optimization (PSO) the set of candidate solutions to the optimization problem is defined as a swarm of particles which may flow through the parameter space defining trajectories which are ...

Particle swarm optimization (PSO). A tutorial - ScienceDirect

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Reduction of Cogging Torque, Harmonics - rroij.com

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1.1 Package structure. The sources of an R package consists of a subdirectory containing a files DESCRIPTION and NAMESPACE, and the subdirectories R, data, demo, exec, inst, man, po, src, tests, tools and vignettes (some of which can be missing, but which should not be empty).

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