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Vision Projects with
Python 3: Introducing
dlib | packtpub.com
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2) :Face LandMark
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Taras Chaykivskyy -
Computer Vision in
Front-End *Dlib C*
Library Optimization

This page documents library components that attempt to find the minimum or maximum of a user supplied function. An introduction to the general purpose non-linear optimizers in this section can be

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found here. For an example showing how to use the non-linear least squares routines look here.

*dlib C++ Library -
Optimization*

dlib C++ Library -
optimization_ex.cpp.
// The contents of this
file are in the public
domain. See LICENS
E_FOR_EXAMPLE_P

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ROGRAMS.txt /* This is an example illustrating the use the general purpose non-linear optimization routines from the dlib C++ Library. The library provides implementations of many popular algorithms such as L-BFGS and BOBYQA. These algorithms allow you to find the

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Library or maximum
of a function of many
input variables.

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optimization_ex.cpp*
Dlib is a modern C++
toolkit containing
machine learning
algorithms and tools
for creating complex
software in C++ to
solve real world
problems. It is used in

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both industry and academia in a wide range of domains including robotics, embedded devices, mobile phones, and large high performance computing environments.

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Bayesian

Optimization: Use a

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tool like MATLAB's bayesopt to automatically pick the best parameters, then find out Bayesian Optimization has more hyperparameters than your machine learning algorithm, get frustrated, and go back to using guess and check or grid search.

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

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Davis E. King

(davis@dlib.net) //

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full license.#undef DLI

B_OPTIMIZATION_A

BSTRACT_#ifdef ...

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dlib C++ Library - optimization_abstract.h

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B_OPTIMIZATION_H

_ #define DLIB ...

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optimization.h -

SourceForge

I would like to know if it's possible to get the number of iterations finally used for a BFGS optimization.

I'm using the following command (in dlib 18.18 version) : `dlib::find_min_box_constrained(dlib::bfgs_search_strategy(), dlib::objective_delta_stop_strate`

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gy(this->stopToleranc
e,this->maxIter),
myfunction,
mygradient,
starting_point ...

*dlib C++ Library /
Discussion / Help:
Optimization ...*

```
#ifndef DLIB_OPTIMI  
ZATION_TRUST_RE  
GloN_Hh_ #define DL  
IB_OPTIMIZATION_T  
RUST_REGloN_Hh_
```

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```
#include "../matrix.h"  
#include "optimization  
_trust_region_abstrac  
t.h" namespace dlib {  
----- template <  
typename EXP1,  
typename EXP2,  
typename T, long NR,  
long NC, typename  
MM, typename L >  
unsigned long solve_t  
rust_region_subprobl  
em (const  
matrix_exp<EXP1 ...
```

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dlib C++ Library - optimization_trust_region.h

Dlib is also capable of using any optimized BLAS or LAPACK libraries that are installed on your system. Linking to these libraries will make many things run faster. To do this you define the

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`DLIB_USE_BLAS`

and/or

`DLIB_USE_LAPACK`

preprocessor

directives and then

link your program with

whatever BLAS or

LAPACK libraries you

have.

dlib C++ Library

Dlib v19.5 is out and

there are a lot of new

features. There is a

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dlib to caffe converter, a bunch of new deep learning layer types, cuDNN v6 and v7 support, and a bunch of optimizations that make things run faster in different situations, like ARM NEON support, which makes HOG based detectors run a lot faster on mobile devices.

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dlib C++ Library

The C++ Standard Library: A Tutorial and Reference by Nicolai M. Josuttis If you are going to buy a reference book on the C++ standard library then this is the one to get. I think you will find it is better than any of the available online references.

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*dlib C++ Library -
Suggested Books*

```
#undef DLIB_OPTIMI  
ZATION_TRUST_RE  
GloN_H_ABSTRACT  
h_ #ifdef DLIB_OPTI  
MIZATION_TRUST_  
REGloN_H_ABSTRA  
CTh_ #include "../matr  
ix/matrix_abstract.h"  
namespace dlib {  
----- template <  
typename EXP1,  
typename EXP2,
```

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typename T, long NR,
long NC, typename
MM, typename L >
unsigned long solve_t
rust_region_subprobl
em (const
matrix_exp<EXP1>&
B, const ...

*dlib C++ Library - opti
mization_trust_region
_abstract.h*

Dlib is a general
purpose cross-

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platform open source
software library
written in the C++
programming
language. Its design
is heavily influenced
by ideas from design
by contract and
component-based
software engineering.

*dlib C++ Library -
Introduction*

On Ubuntu, this can

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be done easily by
running the #
command: # sudo apt-
get install cmake #
import dlib from math
import
sin,cos,pi,exp,sqrt #
This is a standard test
function for these
kinds of optimization
problems. # It has a
bunch of local
minima, with the
global minimum

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```
resulting in #  
holder_table  
()==-19.2085025679.  
def  
holder_table(x0,x1):  
return -abs(sin(x0)*co  
s(x1)*exp(abs(1-sqrt(x  
0*x0+x1*x1)/pi))) #  
Find the optimal  
inputs to holder_table  
().
```

dlib C++ Library

hi, i really liked dlib, I

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library
Optimization

have questions related to 2 topics, one is i tried the optimization class example, I want to use BFGS algorithm, but i didnot see anything for constrained optimization, so is it possible to use dlib for constrained optimization I understand i can

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augment my objective function with constrained, but i guess it can have ill posed problems, can you give any idea on this.

*dlib C++ Library /
[Dclib-devel]
constrained
Optimization*

This formula below is what is suggested // in

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the book Numerical
Optimization by
Nocedal and Wright in
the chapter on Large
Scale //
Unconstrained
Optimization (in the L-
BFGS section).

*dlib C++ Library - opti-
mization_search_strat-
egies.h*

C.H.J.Hartgerink [at]
uvt.nl. Scholarly

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Articles contain much information. Scholarly data, however, are more often unavailable than available (Wichert et al., 2006; Vanpaemel et al., 2015), even upon request (Krawczyk and Reuben, 2012), and increasingly unavailable over time (Vines et al., 2014).

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Data on which
scholarly articles are
based are ...

*D-Lib Magazine In
Brief and In the News*
Unfortunately there
aren't any constrained
versions of the
nonlinear optimization
functions in the
library. It might not be
too hard to solve this
sort of problem with

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dlib depending on what problem it is exactly that you are trying to solve. But generally speaking, constrained nonlinear optimization is a tricky thing.

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Question about ...*
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Library for free. Dlib is

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a C++ toolkit
containing machine
learning algorithms
and tools for creating
complex software in
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world problems.

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Phone: (212)

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ca1727fba0