

## Contents

Usage of CRG_PEAKFINDER	1
Test proceedings	2
Test1	3
Test1.1 (sub selection)	4
Test1.2 (sub selection)	5
Test2 (real)	6

## Usage of CRG\_PEAKFINDER

Introducing the usage of crg\_peakfinder. Examples are included. The file comments are optimized for the matlab publishing makro.

```
% Copyright 2005-2011 OpenCRG - VIRES Simulationstechnologie GmbH -
% Holger Helmich
%
% Licensed under the Apache License, Version 2.0 (the "License");
% you may not use this file except in compliance with the License.
% You may obtain a copy of the License at
%
%     http://www.apache.org/licenses/LICENSE-2.0
%
% Unless required by applicable law or agreed to in writing, software
% distributed under the License is distributed on an "AS IS" BASIS,
% WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
% See the License for the specific language governing permissions and
% limitations under the License.
%
% More Information on OpenCRG open file formats and tools can be found at
%
%     http://www.opencrg.org
%
% $Id: crg_test_peakfinder.m 1 2011-06-08 11:36:00Z hhelmich $
```

## Test proceedings

- Load demo file
- add peaks
- find peaks
- display result

```
% DEFAULT SETTINGS
% clear enviroment
clear all;
close all;
```

## Test1

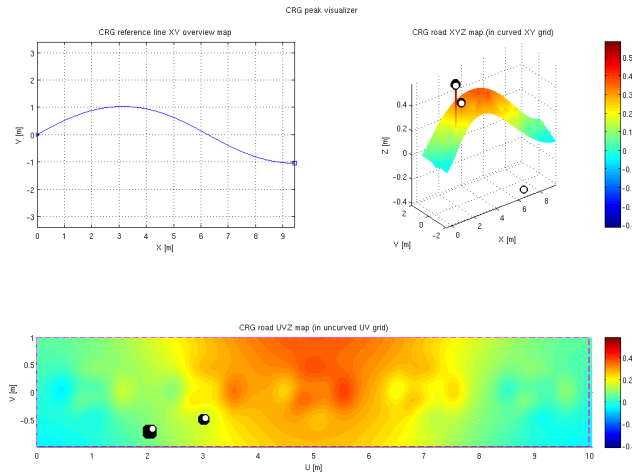
```
data = crg_read('demo8.crg');

% add peaks
data.z(200:210, 25:35) = 0.5;      % 10x10 + 0.05
data.z(300:305, 50:55) = 0.2;      % 5x5   + 0.09
data.z(800, 50) = -0.5;            % 1x1   - 0.5

iu = [1 1000];
iv = [1 200];

[pindex, pij] = crg_peakfinder( data, [], [], 0.5, 10);

crg_show_peaks(data, pij, iu, iv, [], []);
```



demo8.crg

2011-06-08 11:37:14

## Test1.1 (sub selection)

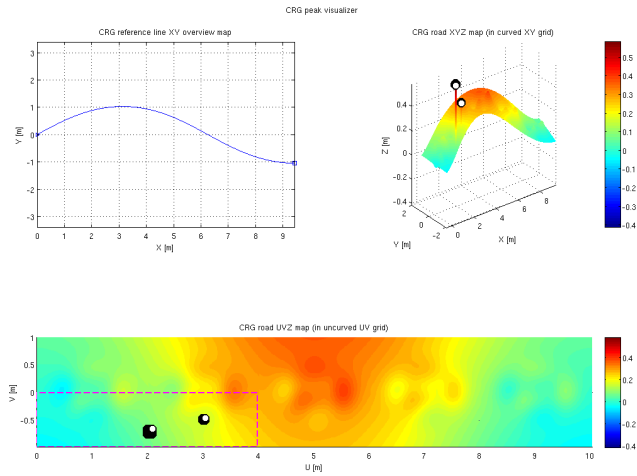
```
data = crg_read('demo8.crg');

% add peaks
data.z(200:210, 25:35) = 0.5;      % 10x10 + 0.05
data.z(300:305, 50:55) = 0.2;      % 5x5   + 0.09
data.z(800, 50) = -0.5;            % 1x1   - 0.5

iu = [1 400];
iv = [1 100];

[pindex, pij] = crg_peakfinder( data, iu, iv, 0.5, 10);

crg_show_peaks(data, pij, iu, iv);
```



demo8.crg

2011-06-08 11:37:25

## Test1.2 (sub selection)

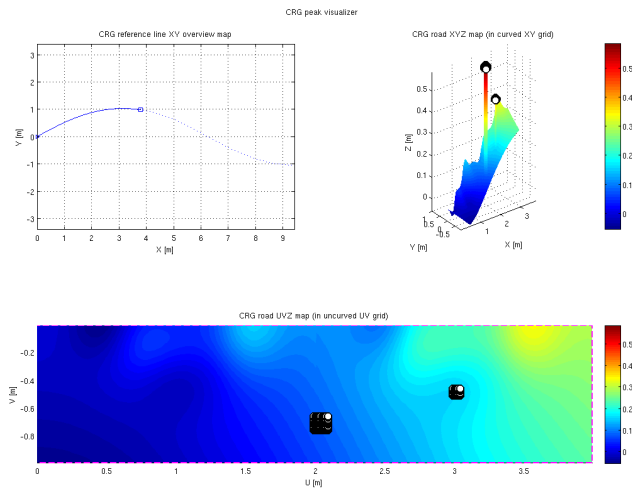
```
data = crg_read('demo8.crg');

% add peaks
data.z(200:210, 25:35) = 0.5;      % 10x10 + 0.05
data.z(300:305, 50:55) = 0.2;      % 5x5   + 0.09
data.z(800, 50) = -0.5;            % 1x1   - 0.5

iu = [1 400];
iv = [1 100];

[pindex, pij] = crg_peakfinder( data, iu, iv, 0.5, 10);

crg_show_peaks(data, pij, [], [], iu, iv);
```



demo8.crg

2011-06-08 11:37:36

## Test2 (real)

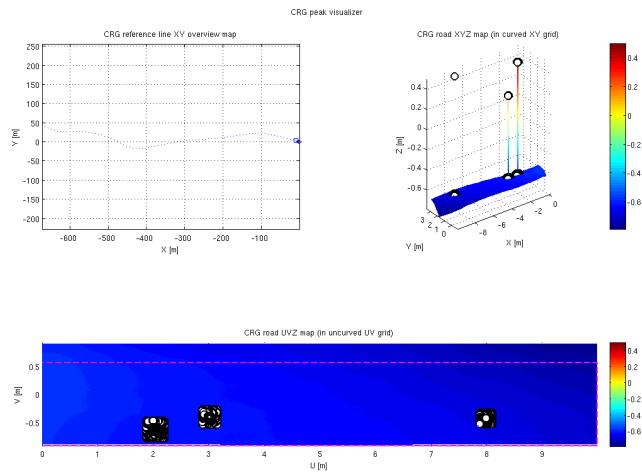
```
dat1 = crg_read('../crg-bin/country_road.crg');

% add peaks
dat1.z(200:210, 25:35) = 0.5;      % 10x10 + 0.05
dat1.z(300:305, 50:55) = 0.2;      % 5x5   + 0.09
dat1.z(800, 50) = 0.5;             % 1x1   - 0.03

iu = [1 1000];
iv = [1 150];

[pindex, pij] = crg_peakfinder( dat1, iu, iv, 0.5, 10);

crg_show_peaks(dat1, pij, iu, iv, [1 1000]);
```



../crg-bin/country\_road.crg

2011-06-08 11:37:41