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Usage of CRG_MAP_UV2UVV AND CRG_MAP_XY2XY

Introducing the usage of crg_map_uv2uv and crg_map_xy2xy. Examples are included. The file comments are optimized for the matlab publishing makro.

```
Copyright 2005-2011 OpenCRG - VIRES Simulationstechnologie GmbH -
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   Holger Helmich
%
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    you may not use this file except in compliance with the License.
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       http://www.apache.org/licenses/LICENSE-2.0
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   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_map_uv2uvAxy2xy.m 1 2011-06-08 11:06:00Z hhelmich $
```

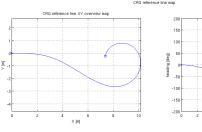
Test proceedings

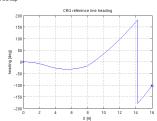
- $\bullet\,$ generate 0-z-crg file
- \bullet load test/real files
- SECOND: inertial x,y mapping ($za(x,y) \rightarrow zb(x,y)$)
- \bullet display result

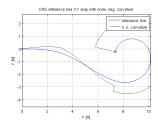
```
% DEFAULT SETTINGS
\% clear environment
clear all;
close all;
```

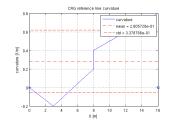
```
Test1 ( no additional parameter )
```

```
c = { 3
          {
             0 -0.2/3 }
                                 % klothoide
    ; 5
          {-0.2
                 0.4/5 }
                                % turning klothoide
    ; 8
          { 0.4
                                 % circle
                 0.4/8 } ...
    };
dat1 = crg_gen_csb2crg0([], 16, 1, c);
dat2 = crg_read('demo1.crg');
data = crg_map_uv2uv(dat1,dat2);
                                   % u,v mapping
crg_show(data);
data = crg_map_xy2xy(dat1,dat2);
                                      % inertial mapping
crg_show(data);
```

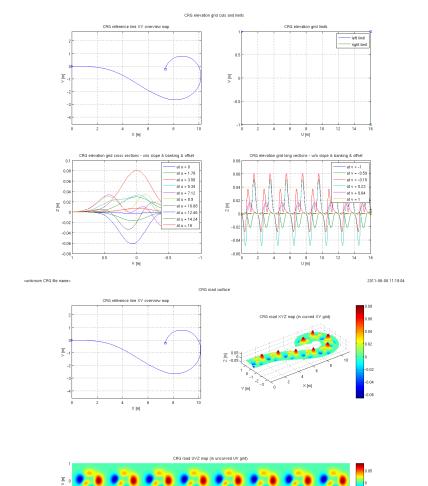








 <unknown CRG file name>
 2011-06-08 11:18:02



 -curknown CRG file name>
 2011-06-08 11:18:05

CRG comment data:

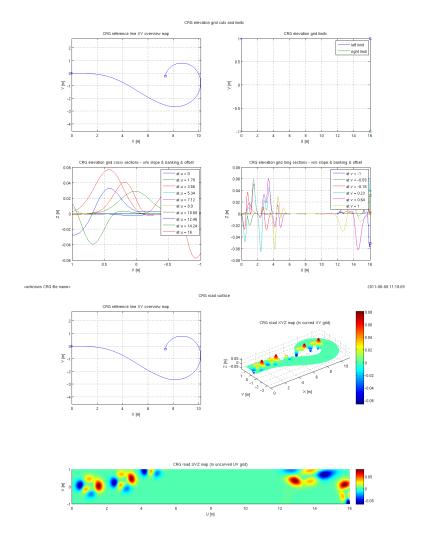
CRG minimal artificial road and flat surface ... curvature added



<unknown CRG file name>

2011-06-08 11:18:06 <unknown CRG file name> ℤ. -100 -150 0.4 [w/L] 0.4 0.2 <u>E</u> -1 X [m]

2011-06-08 11:18:08



<unknown CRG file name> 2011-08-08 11:18:10

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<unknown CRG file name> 2011-06-08 11:18:11

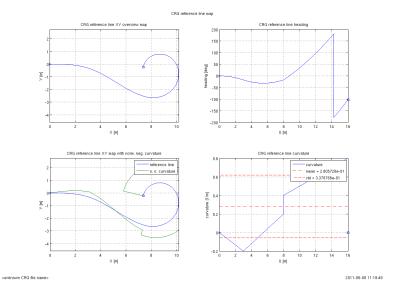
Test2 (u-start/stop index)

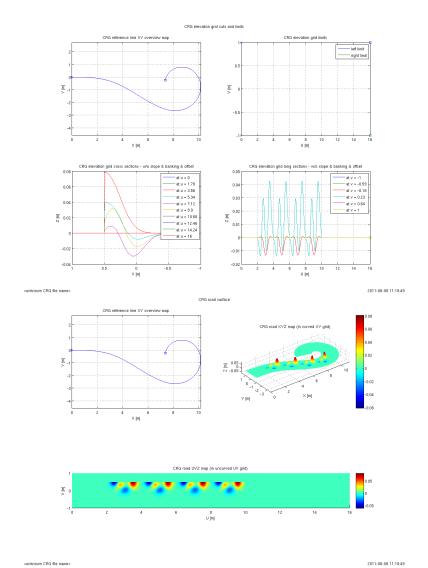
Test3 (v-start/stop index)

Border Mode is default

```
Test4 ( u/v-start/stop index )
```

```
c = { 3
          {
             0 -0.2/3 }
                                  % klothoide
    ; 5
          {-0.2
                  0.4/5 }
                                  % turning klothoide
    ; 8
          { 0.4
                  0.4/8 }
                                  % circle
   };
dat1 = crg_gen_csb2crg0([], 16, 1, c);
dat2 = crg_read('demo1.crg');
data = crg_map_uv2uv(dat1, dat2, [200 1000], [50 150]); % u,v mapping
crg_show(data);
```





GB comment data:

GB kinimal artificial coad and flat surface

... curvature added
...

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CRG reference line XY overview map

CRG reference line XY overview map

CRG reference line baseding

CRG reference line available of the curvature

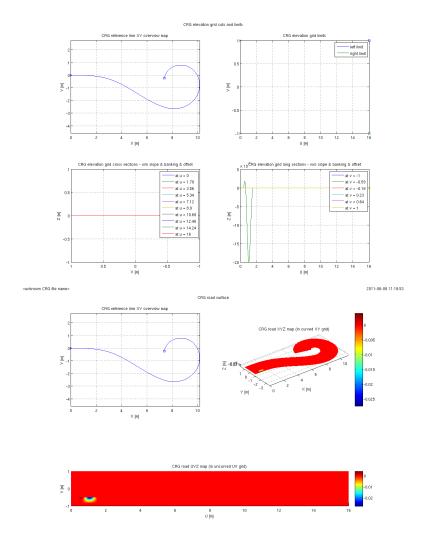
Output

Outpu

X [m]

<unknown CRG file name>

2011-06-08 11:18:52



 -unknown CRG file names
 2011-06-08 11:8:54

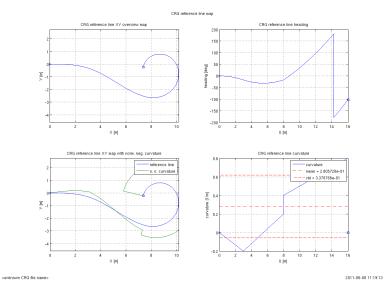
CRE COMMERCE DATA

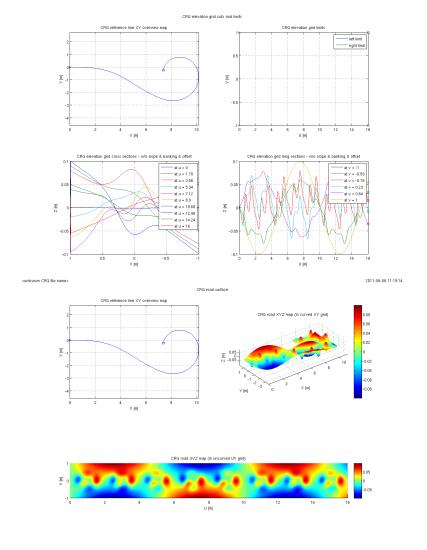
THE COMMERCE

<unknown CRG file name> 2011-08-08 11:18:55

```
Test5 (add curved crg)
```

```
c = { 3
        {
          0 -0.2/3 }
                          % klothoide
   ; 5
        {-0.2
              0.4/5 }
                          % turning klothoide
   ; 8
                          % circle
        { 0.4
              0.4/8 } ...
   };
dat1 = crg_gen_csb2crg0([], 16, 1, c);
dat2 = crg_read('demo7.crg');
crg_show(data);
```





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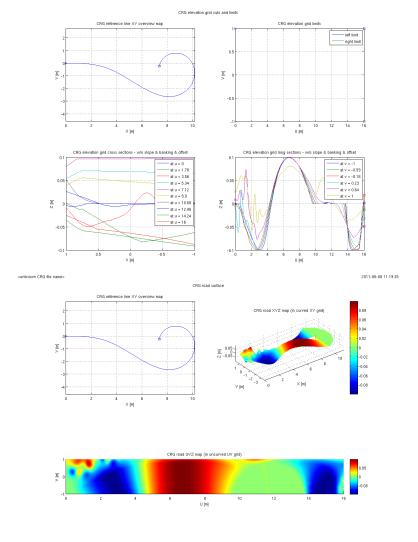
CRG comment data:

CRG minimal artificial road and flat surface ... curvature added

CRG reference line map

CRG reference line has fine devalues

CRG refe



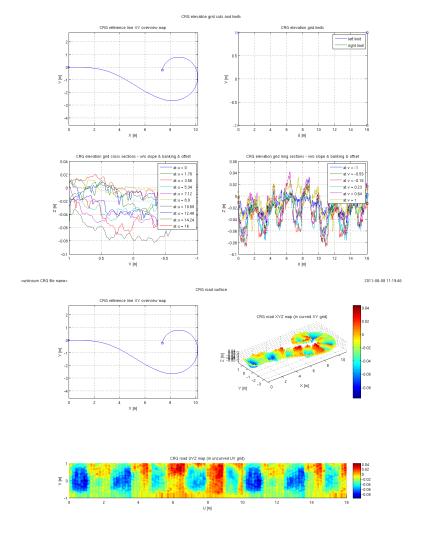
<unknown CRG file name> 2011-06-08 11:19:36

<unknown CRG file name> 2011-08-08 11:19:37

```
Test6 (adding real dataset)
c = { 3
         {
           0 -0.2/3 }
                              % klothoide
   ; 5
         {-0.2
               0.4/5 }
                        . . .
                             % turning klothoide
   ; 8
         { 0.4
                0.4/8 } ...
                              % circle
   };
dat1 = crg_gen_csb2crg0([], 16, 1, c);
dat2 = crg_read('../crg-bin/belgian_block.crg');
dat2.mods.rptx = 1;
dat2.mods.rpty = 1;
dat4 = crg_mods(dat2);
crg_show(data);
data = crg_map_xy2xy(dat1,dat4 );
                                % inertial mapping
crg_show(data);
```

<unknown CRG file name>

2011-06-08 11:19:46

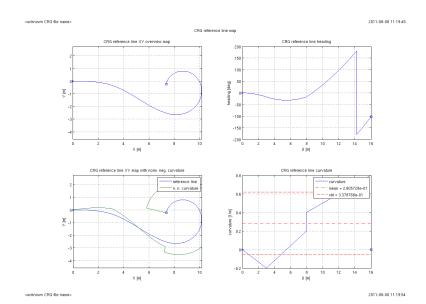


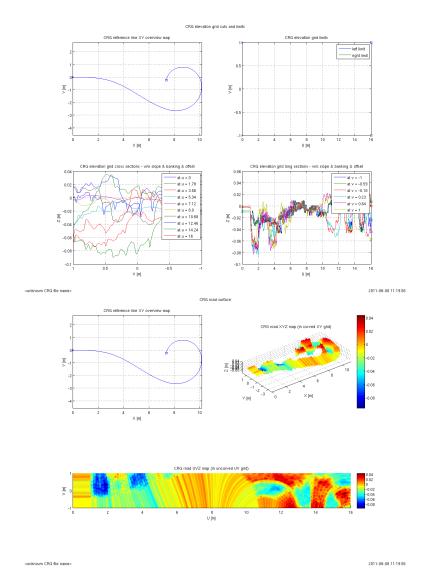
 <unknown CRG file name>
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CRG comment data

CRG minimal artificial road and flat surface ... curvature added





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