

Package ‘crackrec’

November 1, 2009

Type Package

Title Crackrecognition

Version 2.1.5

Date 2009-11-01

Author Janine Keppler, Arne Mueller, Christine Mueller, Alexander Stepper

Maintainer Alexander Stepper <stepper@mathematik.uni-kassel.de>

Description Allows the automatic detection of cracks and corresponding statistical analysis of crack quantities.

License GPL-2

LazyLoad yes

R topics documented:

crackrec-package 1

crackrec-package *crackrec*

Description

This Package allows the automatic detection of cracks and corresponding statistical analysis of crack quantities. The output of the crack detection program contains the pixels of crack clusters, the pixels of crack paths, and the start and end points of the crack paths. These quantities can be used for a detailed statistical analysis of crack growth.

Details

Package:	crackrec
Type:	Package
Version:	2.1.5
Date:	2009-11-01
License:	GPL-2
LazyLoad:	yes

<code>crackplot</code>	Adds detected crackpaths and lines which connect the start and endpoints of the paths to an image.
<code>crackrec</code>	Finds cracks (darker areas) in an image.
<code>medianfilter</code>	Median filter.
<code>rbmp</code>	Reads an uncompressed file in 24 bit BMP format and creates a matrix from it.
<code>threshold.msi</code>	Can be used to find an appropriate threshold value for <code>crackrec</code> .
<code>shadow.remove</code>	Removes shadows at the edges of an image.

Author(s)

Janine Keppler, Arne Mueller, Christine Mueller, Alexander Stepper

`<arne.mueller@fu-berlin.de>`, `<cmueller@mathematik.uni-kassel.de>`, `<stepper@mathematik.uni-kassel.de>`

See Also

`crackrec`, `threshold.msi`, `shadow.remove`, `rbmp`, `crackplot`, `medianfilter`