scikit-cycling Documentation

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SKCYCLING

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1.1.1 Subpackages

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Subpackages

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Submodules

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skcycling.metrics.tests.test_ride.test_intensity_factor_ftp_score()
    Testing the function computing IF with FTP
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skcycling.metrics.tests.test_ride.test_training_stress_pma_grappe_score()
    Testing the function to compute the stress based on ESIE and PMA
skcycling.metrics.tests.test_ride.test_training_stress_pma_score()
    Testing the function to compute the TSS from PMA
```

Module contents

Submodules

skcycling.metrics.ride module

```
Metrics to asses the performance of a cycling ride
Functions named as *_score return a scalar value to maximize: the higher the better
Function named as *_error or *_loss return a scalar value to minimize: the lower the better
skcycling.metrics.ride.ftp2pma(ftp)
     Convert the PMA to FTP
     ftp [float] Functioning Threhold Power.
     pma [float] Maximum Anaerobic Power.
skcycling.metrics.ride.intensity_factor_ftp_score(X,ftp)
     Compute the intensity factor using the FTP
     X [array-like, shape (n_samples, )] Array containing the power intensities for a ride.
     ftp [float] Functional Threshold Power.
     score: float Return the intensity factor.
skcycling.metrics.ride.intensity_factor_pma_score(X, pma)
     Compute the intensity factor using the PMAB
     X [array-like, shape (n_samples, )] Array containing the power intensities for a ride.
     pma [float] Maximum Anaerobic Power.
     score: float Return the intensity factor.
skcycling.metrics.ride.normalized_power_score(X, pma)
     Compute the normalized power for a given ride
     X [array-like, shape (n_samples, )] Array containing the power intensities for a ride.
     pma [float] Maxixum Anaerobic Power.
     score [float] Return the normalized power.
skcycling.metrics.ride.pma2ftp(pma)
     Convert the PMA to FTP
     pma [float] Maximum Anaerobic Power.
     ftp [float] Functioning Threhold Power.
skcycling.metrics.ride.training_stress_ftp_grappe_score(X, ftp)
     Compute the training stress score using the FTP, considering Grappe et al. approach
     X [array-like, shape (n_samples, )] Array containing the power intensities for a ride.
     ftp [float] Functional Threshold Power.
     score: float Return the training stress score.
```

```
skcycling.metrics.ride.training_stress_ftp_score(X, ftp)
     Compute the training stress score using the FTP
     X [array-like, shape (n_samples, )] Array containing the power intensities for a ride.
     ftp [float] Functional Threshold Power.
     score: float Return the training stress score.
skcycling.metrics.ride.training_stress_pma_grappe_score(X, pma)
     Compute the training stress score using the PMA, considering Grappe et al. approach
     X [array-like, shape (n_samples, )] Array containing the power intensities for a ride.
     pma [float] Maximum Anaerobic Power.
     tss_score: float Return the training stress score.
skcycling.metrics.ride.training_stress_pma_score(X, pma)
     Compute the training stress score
     X [array-like, shape (n_samples, )] Array containing the power intensities for a ride.
     pma [float] Maximum Anaerobic Power.
     score: float Return the training stress score.
Module contents
The skcycling.metrics module include score functions.
skcycling.metrics.normalized power score(X, pma)
     Compute the normalized power for a given ride
     X [array-like, shape (n_samples, )] Array containing the power intensities for a ride.
     pma [float] Maxixum Anaerobic Power.
     score [float] Return the normalized power.
skcycling.metrics.intensity_factor_ftp_score(X, ftp)
     Compute the intensity factor using the FTP
     X [array-like, shape (n_samples, )] Array containing the power intensities for a ride.
     ftp [float] Functional Threshold Power.
     score: float Return the intensity factor.
skcycling.metrics.intensity_factor_pma_score(X, pma)
     Compute the intensity factor using the PMAB
     X [array-like, shape (n_samples, )] Array containing the power intensities for a ride.
     pma [float] Maximum Anaerobic Power.
```

score: float Return the intensity factor.

```
skcycling.metrics.training_stress_ftp_score(X, ftp)
     Compute the training stress score using the FTP
     X [array-like, shape (n_samples, )] Array containing the power intensities for a ride.
     ftp [float] Functional Threshold Power.
     score: float Return the training stress score.
skcycling.metrics.training_stress_pma_score(X, pma)
     Compute the training stress score
     X [array-like, shape (n_samples, )] Array containing the power intensities for a ride.
     pma [float] Maximum Anaerobic Power.
     score: float Return the training stress score.
skcycling.metrics.pma2ftp(pma)
     Convert the PMA to FTP
     pma [float] Maximum Anaerobic Power.
     ftp [float] Functioning Threhold Power.
skcycling.metrics.ftp2pma(ftp)
     Convert the PMA to FTP
     ftp [float] Functioning Threhold Power.
     pma [float] Maximum Anaerobic Power.
skcycling.metrics.training\_stress\_pma\_grappe\_score(X, pma)
     Compute the training stress score using the PMA, considering Grappe et al. approach
     X [array-like, shape (n_samples, )] Array containing the power intensities for a ride.
     pma [float] Maximum Anaerobic Power.
     tss score: float Return the training stress score.
skcycling.metrics.training_stress_ftp_grappe_score(X, ftp)
     Compute the training stress score using the FTP, considering Grappe et al. approach
     X [array-like, shape (n_samples, )] Array containing the power intensities for a ride.
     ftp [float] Functional Threshold Power.
     score: float Return the training stress score.
skcycling.power_profile package
Subpackages
skcycling.power_profile.tests package
```

Submodules

skcycling.power_profile.tests.test_power_profile module Test the power profile class.

```
skcycling.power_profile.tests.test_power_profile.test_2()
   Test if the rpp is computed properly.
skcycling.power_profile.tests.test_power_profile.test_rpp_load_no_weight()
   Test the routine to read the Rpp with no weight.
```

Module contents

Submodules

skcycling.power profile.rpp module

Record power-profile

This module contains class and methods related to the record power-profile.

Record power-profile

Can perform online updates via partial_fit method.

max_duration_rpp [int] Integer representing the maximum duration in minutes to build the record power-profile model.

cyclist_weight [float, default None] Float in order to normalise the record power-profile depending of its weight. By default this is None in order to avoid using the data from normalized rpp without this data.

rpp_ [array-like, shape (60 * max_duration_rpp,)] Array in which the record power-profile is stored. The units used is the second.

rpp_norm_ [array-like, shape (60 * max_duration_rpp,)] Array in which the weight-normalized record power-profile is stored. The units used is the seconds.

max_duration_rpp_ [int] The maximum duration of the record power-profile.

```
cyclist_weight_ [float] Cyclist weight.
```

```
aerobic meta model (ts=None, starting time=4, normalized=False, method='lsq')
```

Compute the aerobic metabolism model from the record power-profile

ts [array-like, shape (n_samples,)] Array containing the sample to take into account. None if we want to pick up all the data.

start_time [int, default 4] Starting time to consider when fitting the linear model.

normalized [bool, default False] Return a weight-normalized rpp if True.

method [string, default 'lsq'] Which type of tehenic to use to make the fitting ('lsq', 'lm').

slope [float] slope of the regression line.

intercept [float] intercept of the regression line.

```
stderr [float] Standard error of the estimate.
           coeff_det [float] Coefficient of determination.
           [1] Pinot et al., "Determination of Maximal Aerobic Power on the Field in Cylcing" (2014)
      fit (X, in parallel=True)
           Fit the data to the RPP
           X : array-like, shape (n samples, )
           in_parallel [boolean] If True, the rpp will be computed on all the available cores.
           self [object] Returns self.
      classmethod load_from_npy (filename, cyclist_weight=None)
           Load the record power-profile from an npy file
           filename [str] String containing the path to the NPY file containing the array representing the record
                power-profile.
           cyclist_weight [float or None, default None] Float in order to normalise the record power-profile depend-
                ing of its weight. By default this is None in order to avoid using the data from normalized rpp without
                this data.
           self [object] Returns self
      partial_fit (X, refit=False, in_parallel=True)
           Incremental fit of the RPPB
           X : array-like, shape (n_samples, )
           in_parallel [boolean] If True, the rpp will be computed on all the available cores.
           self [object] Returns self.
      resampling_rpp (ts, method_interp='linear', normalized=False)
           Resampling the record power-profile
           ts [array-like, shape (n sample, )] An array containaining the time landmark to sample.
           method interp [string, default 'linear'] Name of the method to interpolate the data. Specifies the kind
                of interpolation as a string ('linear', 'nearest', 'zero', 'slinear', 'quadratic, 'cubic' where 'slinear',
                'quadratic' and 'cubic' refer to a spline interpolation of first, second or third order) or as an integer
                specifying the order of the spline interpolator to use.
           normalized [bool, default False] Return a weight-normalized rpp if True.
           rpp [array-like, shape (n_samples, )] Return a resampled record power-profile.
skcycling.power_profile.rpp.compute_ride_rpp(X, max_duration_rpp, in_parallel=True)
      Compute the record power-profile
      X : array-like, shape (n_samples, )
      in_parallel [boolean] If True, the rpp will be computed on all the available cores.
      rpp [array-like, shape (n_samples, )] Array containing the record power-profile of the current ride.
```

Module contents

```
class skcycling.power_profile.Rpp (max_duration_rpp, cyclist_weight=None)
      Bases: object
      Record power-profile
      Can perform online updates via partial_fit method.
      max duration rpp [int] Integer representing the maximum duration in minutes to build the record power-
           profile model.
      cyclist_weight [float, default None] Float in order to normalise the record power-profile depending of its
           weight. By default this is None in order to avoid using the data from normalized rpp without this data.
      rpp [array-like, shape (60 * max_duration_rpp, )] Array in which the record power-profile is stored. The units
           used is the second.
      rpp_norm_ [array-like, shape (60 * max_duration_rpp, )] Array in which the weight-normalized record power-
           profile is stored. The units used is the seconds.
      max_duration_rpp_ [int] The maximum duration of the record power-profile.
      cyclist_weight_ [float] Cyclist weight.
      aerobic_meta_model (ts=None, starting_time=4, normalized=False, method='lsq')
           Compute the aerobic metabolism model from the record power-profile
           ts [array-like, shape (n_samples, )] Array containing the sample to take into account. None if we want to
               pick up all the data.
           start time [int, default 4] Starting time to consider when fitting the linear model.
           normalized [bool, default False] Return a weight-normalized rpp if True.
           method [string, default 'lsq'] Which type of tehenic to use to make the fitting ('lsq', 'lm').
           slope [float] slope of the regression line.
           intercept [float] intercept of the regression line.
           stderr [float] Standard error of the estimate.
           coeff_det [float] Coefficient of determination.
           [1] Pinot et al., "Determination of Maximal Aerobic Power on the Field in Cylcing" (2014)
      fit (X, in_parallel=True)
           Fit the data to the RPP
           X: array-like, shape (n samples, )
           in_parallel [boolean] If True, the rpp will be computed on all the available cores.
           self [object] Returns self.
      classmethod load_from_npy (filename, cyclist_weight=None)
           Load the record power-profile from an npy file
           filename [str] String containing the path to the NPY file containing the array representing the record
```

power-profile.

```
cvclist weight [float or None, default None] Float in order to normalise the record power-profile depend-
               ing of its weight. By default this is None in order to avoid using the data from normalized rpp without
               this data.
           self [object] Returns self
     partial fit (X, refit=False, in parallel=True)
           Incremental fit of the RPPB
           X : array-like, shape (n_samples, )
           in_parallel [boolean] If True, the rpp will be computed on all the available cores.
           self [object] Returns self.
     resampling_rpp (ts, method_interp='linear', normalized=False)
           Resampling the record power-profile
           ts [array-like, shape (n_sample, )] An array containaining the time landmark to sample.
           method_interp [string, default 'linear'] Name of the method to interpolate the data. Specifies the kind
               of interpolation as a string ('linear', 'nearest', 'zero', 'slinear', 'quadratic, 'cubic' where 'slinear',
               'quadratic' and 'cubic' refer to a spline interpolation of first, second or third order) or as an integer
               specifying the order of the spline interpolator to use.
           normalized [bool, default False] Return a weight-normalized rpp if True.
           rpp [array-like, shape (n samples, )] Return a resampled record power-profile.
skcycling.power_profile.compute_ride_rpp(X, max_duration_rpp, in_parallel=True)
     Compute the record power-profile
     X : array-like, shape (n_samples, )
     in_parallel [boolean] If True, the rpp will be computed on all the available cores.
     rpp [array-like, shape (n_samples, )] Array containing the record power-profile of the current ride.
skcycling.restoration package
Subpackages
skcycling.restoration.tests package
Submodules
skcycling.restoration.tests.test_denoise module
skcycling.restoration.tests.test_denoise.test_moving_average()
     Test the moving average
skcycling.restoration.tests.test_denoise.test_outliers_thres_rejection()
     Test the outlier rejection method based on thresholding
skcycling.restoration.tests.test_denoise.test_outliers_unknown_method()
     Test to check if an error is risen in case the method is unknown
```

Module contents

Submodules

skcycling.restoration.denoise module

Methods to denoise the power signal provided from a ride

```
{\tt skcycling.restoration.denoise.moving\_average}\,(\textit{X}, \textit{win=30})
```

Apply an average filter to the data

X [array-like, shape (n_samples,)] Array containing the ride or a selection of a ride.

win [interger] Size of the sliding window.

avg [array-like (float)] Return the denoised data mean-filter.

```
skcycling.restoration.denoise.outliers_rejection(X, method='threshold', thres=2500.0)
```

Remove the outliers from the given ride

X [array-like, shape (n_samples,)] Array containing the power intensities for a ride.

method [string, default 'threshold'] String to specified which outliers detection method to use.

thres [float, default 2500.] The maximum power to consider in case the method 'threshold' is considered.

X [array-like, shape (n_samples,)] Array containing the power intensities, outliers free.

Module contents

The skcycling.restoration module include denoising methods.

```
skcycling.restoration.outliers_rejection(X, method='threshold', thres=2500.0)
Remove the outliers from the given ride
```

X [array-like, shape (n_samples,)] Array containing the power intensities for a ride.

method [string, default 'threshold'] String to specified which outliers detection method to use.

thres [float, default 2500.] The maximum power to consider in case the method 'threshold' is considered.

X [array-like, shape (n_samples,)] Array containing the power intensities, outliers free.

```
skcycling.restoration.moving_average(X, win=30)
```

Apply an average filter to the data

X [array-like, shape (n_samples,)] Array containing the ride or a selection of a ride.

win [interger] Size of the sliding window.

avg [array-like (float)] Return the denoised data mean-filter.

skcycling.utils package

Subpackages

skcycling.utils.tests package

Submodules

```
skcycling.utils.tests.test_checker module Testing the checker methods
skcycling.utils.tests.test_checker.test_check_float_convertion()
     Test if an integer is converted to float
skcycling.utils.tests.test_checker.test_check_float_no_conversion()
     Test if a float is not converted when a float is given
skcycling.utils.tests.test_checker.test_check_x_convert_float()
     Test if array X is converted into float if the input is not.
skcycling.utils.tests.test_checker.test_check_x_not_vector()
     Test if an error is risen if X is not a vector.
skcycling.utils.tests.test_checker.test_check_x_np_float64()
     Test everything goes fine with numpy double.
skcycling.utils.tests.test_io_fit module    Testing the input/output methods for FIT files
skcycling.utils.tests.test_io_fit.test_load_power_check_file_exist()
     Test if an error is risen if the FIT file does not exist.
skcycling.utils.tests.test_io_fit.test_load_power_if_no_power()
     Test if a warning if raise if there is no power data.
skcycling.utils.tests.test_io_fit.test_load_power_normal_file()
     Test if a normal file can be loaded correctly.
skcycling.utils.tests.test_io_fit.test_load_power_not_fit()
     Test if an error is risen in case that the file is not a FIT file.
Module contents
```

Submodules

skcycling.utils.checker module

Helper function to check data conformity

skcycling.utils.io fit module

Methods to handle input/output files.

```
skcycling.utils.io_fit.load_power_from_fit (filename)

Method to open the power data from FIT file into a numpy array.
```

filename [str,] Path to the FIT file.

power_rec [ndarray, shape (n_samples)] Power records of the ride.

Module contents

```
skcycling.utils.load_power_from_fit (filename)

Method to open the power data from FIT file into a numpy array.

filename [str,] Path to the FIT file.

power_rec [ndarray, shape (n_samples)] Power records of the ride.
```

1.1.2 Submodules

1.1.3 skcycling.setup module

skcycling.setup.configuration(parent_package='', top_path=None)

1.1.4 Module contents

Cycling Processing Toolbox (Toolbox for SciPy)

scikit-cycling (a.k.a skcycling) is a set of python methods to analyse file extracted from powermeters.

Subpackages

metrics Metrics to quantify cyclist ride.

power_profile Record power-profile of cyclist.

restoration Utility for denoising cyclist ride.

utils Utility to read and save cycling ride.

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