

# A collection of sport activity datasets with an emphasis on powermeter data

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## 1 Description

This collection is a 5<sup>th</sup> collection of sport activity datasets in a row (previous collections are available from <sup>1 2 3 4</sup>). This edition is concentrated mainly on covering athletes who use powermeters on their training. As usual, we exported and anonymized data directly from Garmin Connect profiles. Current format of data is TCX (Training Center XML). Since we always released full athlete's data, covered during his/her entire usage of Garmin Connect, some activities may not contain powermeter data. Athletes may, namely, have a running session or a bike change, where a powermeter is not installed, etc. The Table 1 presents more details about athletes who donated data. Most of the data is donated by the same athletes as in previous collections, meaning that their data is updated with new activities. In order to release a high-quality data for research, only four professional (or semi-professional) athletes were selected.

Name	Gender	Age in 2017	Amateur/Pro	Primary sport
Athlete 1	Male	33	Pro	MTB
Athlete 2	Male	30	Pro	Long distance triathlon
Athlete 3	Male	20	Amateur/Pro	Road cycling
Athlete 4	Female	29	Pro	MTB

Table 1: Details of athletes

The Table 1 illustrates basic information of the published dataset. The first and second columns identify anonymous name and gender, as used in the dataset, while the third column the age of the athlete in the year 2017. The fourth column presents the professionalism of the athlete, while the last column the primary sport of each athlete. The notation "primary sport" states the athlete's main sport's concentration, contrary to the fact that each athlete may do other sports as well (especially during the dead season - winter). MTB stands for Mountain Biking.

<sup>1</sup><http://www.iztok-jr-fister.eu/static/css/datasets/Sport.zip>

<sup>2</sup><http://www.iztok-jr-fister.eu/static/css/datasets/Sport2.zip>

<sup>3</sup><http://www.iztok-jr-fister.eu/static/publications/Sport3.zip>

<sup>4</sup><http://www.iztok-jr-fister.eu/static/publications/Sport4.zip>

## 2 Ethics statement

We are very thankful to our valued athletes, who made this collection publishable by donating data (without them it would not be possible). Data in this collection contain personal records of training and locations. All athletes donated data voluntarily **for research purposes only**. All athletes are anonymous. It is prohibited for anyone (especially for opponents and rivals of these volunteers) to analyze data deeply for their own comparison or similar tasks. Additionally, please do not post visualized routes of activities on social networks or other websites. Other techniques that may reveal the identities or locations of these athletes are also prohibited!

## 3 Download details

The collection is available for downloading on direct **LINK**.

## 4 Citation details

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