

A collection of IRONMAN, IRONMAN 70.3 and Ultra-triathlon race results

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Abstract

The presented Technical Report presents a collection of IRONMAN, IRONMAN 70.3 and Ultra-triathlon race results that was scraped from the web. The collection is intended for data mining purposes.

Introduction

The IRONMAN triathlon is a sport competition consisting of a 3.86 km swim, 180.25 km bike and 42.2 km run. The IRONMAN was established on Hawaii in the year 1978 and, since then, has attracted many athletes to participate in one of the toughest one-day races. All three sports (swimming, cycling and running) are completed in one session; therefore no break is available to athletes due to the competition. Even the transition zones, where an athlete prepares for the next sport are done as fast as possible. Athletes participate in two categories - a PRO category and Age Groups (AG). The PRO category is only one and is intended for competitors for whom triathlon is their profession, while a few of the AGs are applicable for other competitors. IRONMAN 70.3 is a so-called half-IRONMAN, consisting of 1.9 km swim, 90 km bike and 21 km run, or altogether 70.3 miles, while the Ultra-triathlon is a multiplier of the IRONMAN, i.e.:

- Double-Ultra (7.6 km swim, 360 km cycling and 84.4 km run) and
- Triple-Ultra (11.4 km swim, 540 km cycling and 126.6 km run).

IRONMAN and IRONMAN 70.3 are held worldwide by the World Triathlon Corporation (WTC), while Ultra-triathlons are governed by the International Ultra Triathlon Organization (IUTA).

Web scraping details

Inspired by the scraper IronScrape, which can be found on the website <https://github.com/SwimByteRun/IronScrape>, we designed a similar scraper that was working in a fair way (without too many requests to the website). Data are saved in two formats - CSV and JSON. IRONMAN and IRONMAN 70.3 results were scraped from <http://www.ironman.com>, while Ultra-triathlon races from <http://www.iutasport.com>. The collected dataset consists of types and years of races, as well as the race results:

- name, age and country,
- rank and division,
- swimming, cycling and running time,
- overall time.

IRONMAN races

Table 1 presents all IRONMAN races that are available in this collection.

RACE	Years	RACE	Years
IM Australia	2005-2016	IM Austria	2005-2016
IM Barcelona	2014-2015	IM Brazil	2006-2016
IM Cairns	2012-2016	IM Chattanooga	2014-2015
IM Coeur d'Alene	2003, 2005-2016	IM Copenhagen	2013-2016
IM Cozumel	2009, 2011-2015	IM Florida	2002-2015
IM Fortaleza	2014-2015	IM France	2007-2016
IM Frankfurt	2009-2016	IM Kalmar	2012-2016
IM Lake Placid	2013-2016	IM Lanzarote	2011-2016
IM Los Cabos	2013-2015	IM Louisville	2008-2015
IM Maastricht	2015-2016	IM Malaysia	2014
IM Mallorca	2014-2016	IM Maryland	2014-2015
IM Mont Tremblant	2012-2016	IM New Zealand	2003-2016
IM South Africa	2012-2016	IM Taiwan	2015
IM United Kingdom	2010-2016	IM Vichy	2015-2016
IM Vineman	2016	IM Wales	2012-2016
IM Western Australia	2010-2015	IM Wisconsin	2002-2016
IM World Championships	2003-2015		

Table 1: List of collected IRONMAN races and years.

IRONMAN 70.3 races

Table 2 presents all IRONMAN 70.3 races that are available in this collection.

RACE	Years	RACE	Years
IM 70.3 Arizona	2015	IM 70.3 Augusta	2011-2015
IM 70.3 Austin	2012-2015	IM 70.3 Bahrain	2015
IM 70.3 Ballarat	2014-2015	IM 70.3 Budapest	2014-2016
IM 70.3 Buenos Aires	2016	IM 70.3 Cozumel	2011-2015
IM 70.3 Dubai	2016	IM 70.3 Geelong	2014-2016
IM 70.3 Gurye	2014-2015	IM 70.3 Lanzarote	2014-2015
IM 70.3 Miami	2011-2015	IM 70.3 Oceanside	2012-2016
IM 70.3 Panama	2012-2014, 2016	IM 70.3 Pucon	2014-2016
IM 70.3 Puerto Rico	2012-2016	IM 70.3 Pula	2015
IM 70.3 Putrajaya	2014-2016	IM 70.3 Singapore	2011-2012
IM 70.3 South Africa	2012-2016	IM 70.3 St. George	2013-2016
IM 70.3 St. Polten	2009-2016	IM 70.3 Subic Bay	2015-2016
IM 70.3 Taiwan	2013-2016	IM 70.3 Taupo	2015
IM 70.3 Turkey	2015	IM 70.3 Wiesbaden	2011-2016
IM 70.3 World Championships	2012-2016	IM 70.3 Western Sydney	2014-2015

Table 2: List of collected IRONMAN 70.3 races and years.

Ultra-triathlon races

Table 3 presents all Ultra-triathlon races that are available in this collection.

RACE	Years	RACE	Years
Double Germany	2015	Double Hungary	2014
Double Lithuania	2015	Double Slovenia	2014-2016
Double USA Florida	2014-2016	Double USA Oregon	2014-2015
Double USA Virginia	2014	Triple Austria	2016
Triple Germany	2014-2016	Triple UK	2014

Table 3: List of collected Ultra-triathlon (Double & Triple) races and years.

Some inconsistencies in data and possible errors

The following inconsistencies may exist in the collected dataset:

- results are sometimes organized in alphabetical order, not in overall time,
- some attributes of an athlete (e.g. swim time) may be missing; the chip was probably not recognized,
- some results may be missing from datasets,
- sometimes the swim was not held due to weather problems.

To-Do list

The following paragraphs are going to be taken into account in the future:

- scraping results from an old IRONMAN tracker,
- parsing complete IUTA results, due to many inconsistent Results Tables.

In addition, the following Ultra-triathlons may be included in the next version of the dataset:

- Quadruple-Ultra (15.2 km swim, 720 km cycling and 168.8 km run)
- Quintuple-Ultra (19 km swim, 900 km cycling and 211 km run)
- Deca-Ultra (38 km swim, 1800 km cycling and 422 km run)
- Double-Deca-Ultra (76 km swim, 3600 km cycling and 844 km run)
- Triple-Deca-Ultra (114 km swim, 5400 km cycling and 1260 km run)

Citation details

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Disclaimer

The dataset was collected only for data mining and data analysis purposes.

Contact details

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