

Jisc



IRUS-UK

COUNTER
CONSISTENT CREDIBLE COMPARABLE

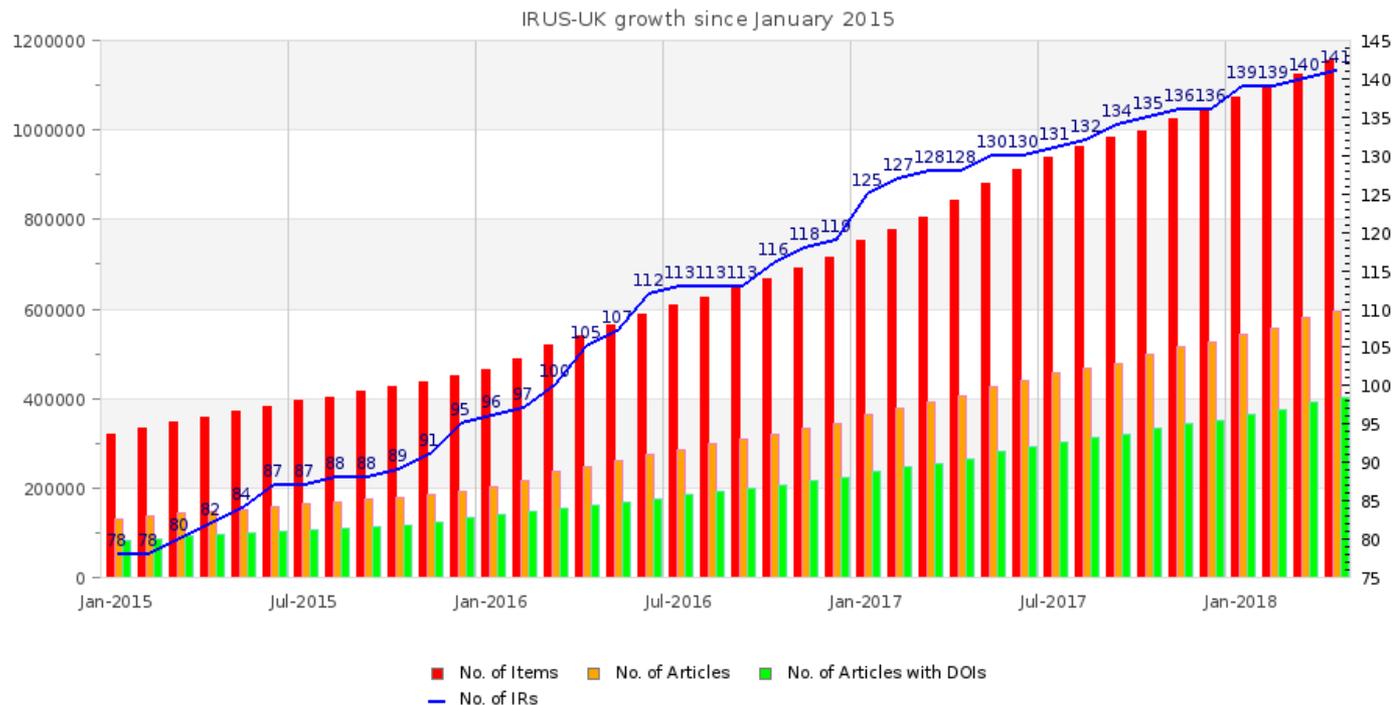
Standardised usage statistics from repositories (IRUS)

Ross MacIntyre, Head library analytics services, Jisc
COAR Workshop: On the Road to New Metrics
Hamburg, May 2018

What is IRUS-UK?

A national aggregation service for UK Institutional Repository Usage Statistics:

- Collects raw download data from UK IRs for *all item types* within repositories
- Processes raw data into COUNTER-conformant statistics - so produced on the same basis as 'traditional' scholarly publishers



Who is responsible for IRUS-UK?

- Funded by Jisc
- Team Members:
 - Jisc – Service Management & Host
 - Cranfield University – Service Development & Maintenance
 - Evidence Base, Birmingham City University – User Engagement & Evaluation

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Jisc Research Outputs Management Services



About COUNTER

- **Counting Online Usage of Networked Electronic Resources**
 - an international initiative serving librarians, publishers and intermediaries
 - setting standards that facilitate the recording and reporting of online usage statistics
 - consistent, credible and comparable
- **COUNTER Codes of Practice:**
 - [Release 4 of the COUNTER Code of Practice for e-Resources](#)
 - Books, databases , journals and multimedia content
 - [Release 1 of the COUNTER Code of Practice for Articles](#)
 - Journal articles
 - [Release 1 of the COUNTER Code of Practice for Usage Factors](#)
 - Alternative metric to the Journal Impact Factor
- **The Codes specify:**
 - How raw data should be processed into statistics
 - How statistics reports should be formatted and delivered

The Tracker Protocol

- To enable repositories to participate in IRUS-UK a small piece of code is added to repository software, which employs the ‘Tracker Protocol’
 - <http://irus.mimas.ac.uk/documents/TrackerProtocol-V3-2017-03-22.pdf>
 - Patches for DSpace (4-6.x) and Plug-ins for Eprints (3.2-3.3.x)
 - Implementation guidelines for Fedora/Hydra/Samvera
 - Implementations developed for PURE portal and figshare
- The Tracker Protocol was devised in collaboration with and is endorsed by COUNTER
- Gathers basic data for each raw download and sends to IRUS-UK server
 - Raw download data is stored in daily logfiles before being processed and ingested into IRUS-UK database

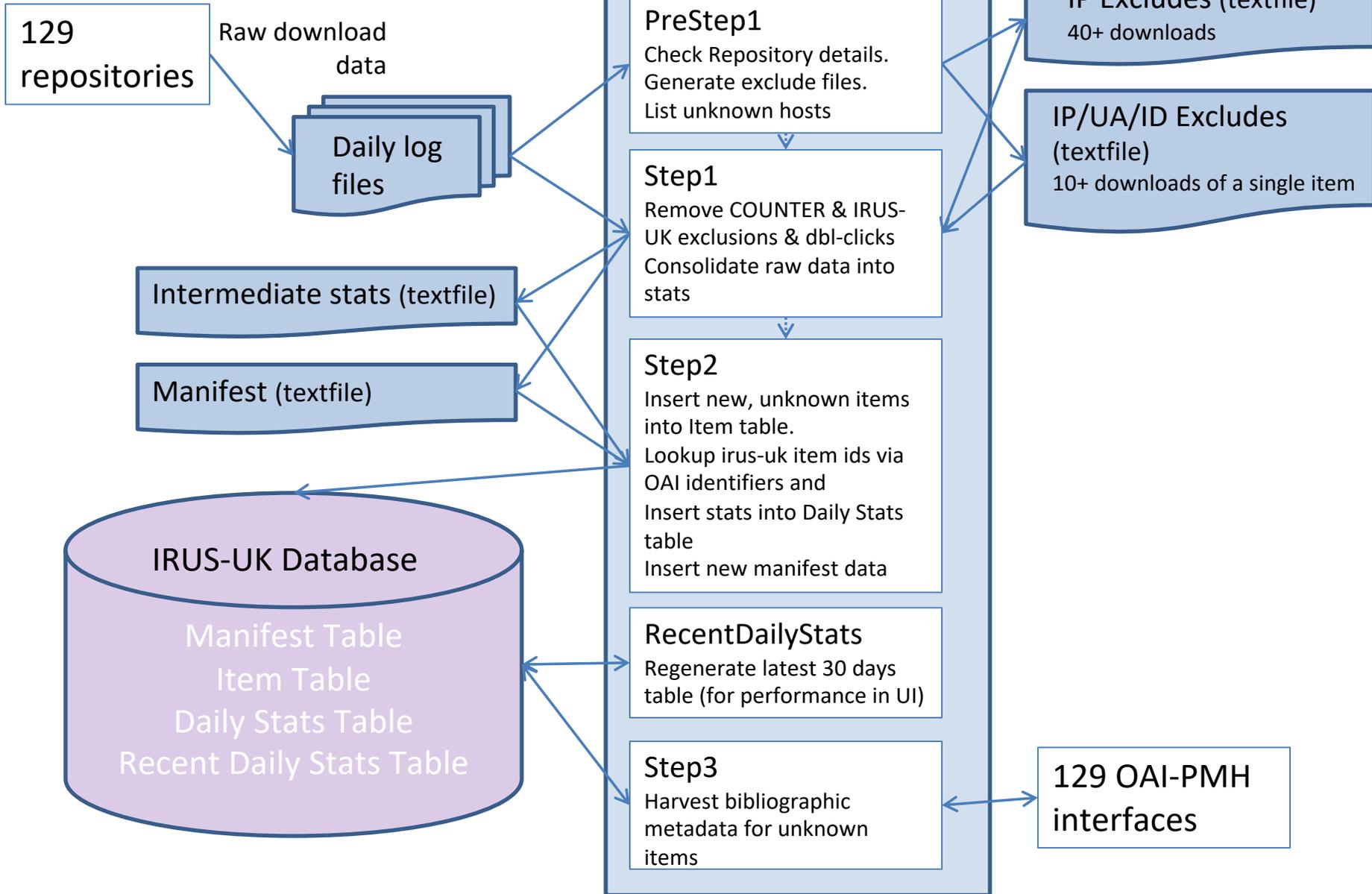
IRUS-UK ingest procedures

- The IRUS-UK daily ingest follows processing rules specified in:
 - [Release 4 of the COUNTER Code of Practice for e-Resources](#)
 - [Release 1 of the COUNTER Code of Practice for Articles](#)
- Processes entries from recognised IRs
- Sorts and filters entries following COUNTER rules to remove robot entries using the [COUNTER User Agent Exclusion List](#)
 - regarded as a minimum requirement for excluding bots, etc.
- Filters entries using additional IRUS-UK filters
- Filters entries by applying the COUNTER 30 second double-click rule
- Consolidates raw usage data for each item into daily statistics
- At the end of each month, daily statistics are consolidated into monthly statistics

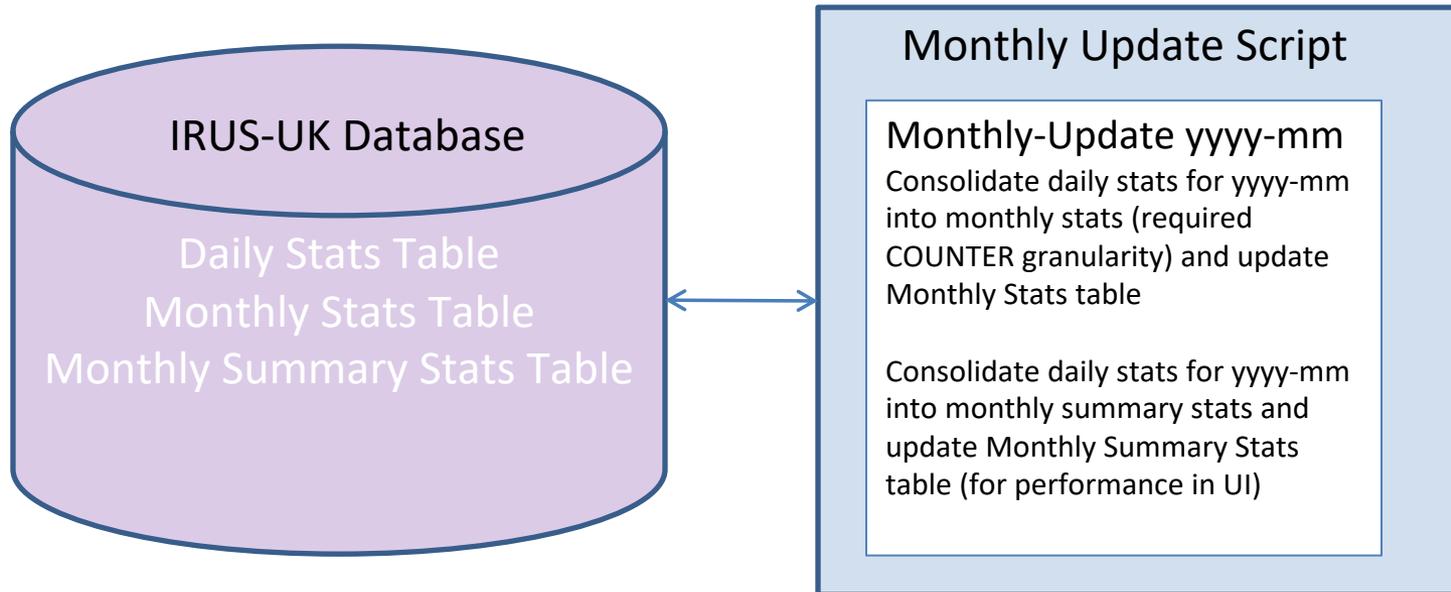
Robots & rogue usage – IRUS-UK current approach

- As stated, the COUNTER Robot Exclusion list is a minimum requirement for eliminating robots and rogue usage
 - It worked well for traditional scholarly publishers with resources behind a subscription barrier
 - As we move to an OA world and newer players – repositories – more needs to be done
- So in addition IRUS-UK:
 - excludes several IP ranges that are associated with some known robots and spiders, which don't identify themselves in their User Agent string
 - And based on several years of empirical evidence:
 - exclude downloads from IP addresses with 40+ downloads in a day
 - Exclude downloads from IP address/User Agent where a single item is downloaded 10+ times a day
 - Though we are aware that more can still be done
- More on robots later, but next a diagrammatic summary of the ingest . . .

IRUS-UK Daily Ingest



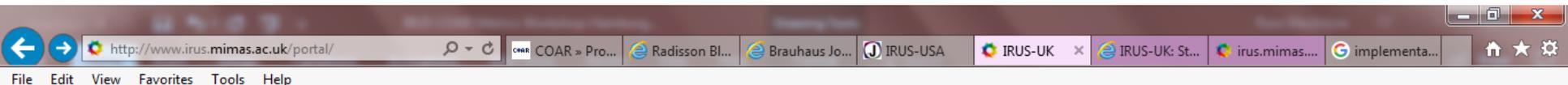
IRUS-UK Monthly Update



Viewing/retrieving IRUS-UK statistics

- Web User Interface - The IRUS-UK Portal
 - Access currently behind Shibboleth authentication/authorisation
 - Wide range of views, slicing and dicing stats from the IRUS-UK database
 - Reports available for download as TSV/CSV/Excel spreadsheet files
- SUSHI service
 - XML SOAP service
 - for more info see: <http://www.niso.org/workrooms/sushi/>
- SUSHI Lite API
 - Under development by the NISO SUSHI Lite Technical Report Working Group (http://www.niso.org/workrooms/sushi/sushi_lite/)
 - Allows retrieval of stats reports and snippets as JSON to be embedded into Repository (and other) web pages, or ingested into other services
 - Example client: http://www.irus.mimas.ac.uk/api/sushilite/v1_7/Client/

IRUS-UK: Home



After you've finished, please remember to [Log out](#)

Last update: 12th May 2018

[Home](#) [Statistics Reports](#) [Metadata Reports](#) [Metadata Views](#) [Metastatistics Views](#) [Visualisations](#)

[More search options](#)

Home

Overall Summary

These tables provide summaries of data in IRUS-UK including: number of participating repositories, number of items downloaded from these repositories since they joined, numbers of downloads (in total, to the end of the previous month, and during the current month) and also the latest date for which data is available in IRUS-UK.

[Statistics and Reports available in the IRUS-UK Portal](#)

Overall Summary

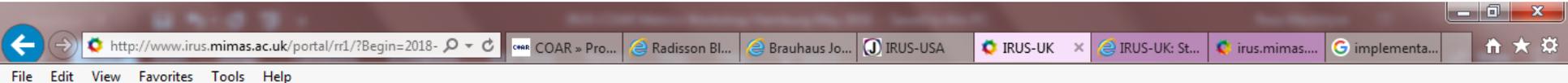
Headlines at a glance as of 12th May 2018	
Repositories	141
Items	1,196,734
Downloads up to Apr-2018	134,451,946
Downloads in May-2018, so far...	1,914,885
Total Downloads	136,366,831

Yearly summaries

Year	No. of Repositories	No. of Articles	Article Downloads	No. of Items	Total Downloads
2012	13	11,507	373,601	42,546	1,038,181
2013	50	65,390	3,321,594	167,691	9,036,143
2014	75	123,759	6,076,124	304,716	16,570,691
2015	95	193,491	8,155,868	450,082	22,373,006
2016	119	345,247	12,221,222	716,509	29,785,606
2017	133	526,384	16,220,022	1,043,711	38,221,492
2018	134	596,067	7,398,688	1,154,486	17,426,827



IRUS-UK: Repository Report 1



Repository Report 1 (RR1), Number of Successful Item Download Requests by Month and Repository

Repository Report 1 (RR1), Number of Successful Item Download Requests by Month and Repository

To whom it may concern

Period covered by Report: 2018-01-01 to 2018-04-30

Filters:

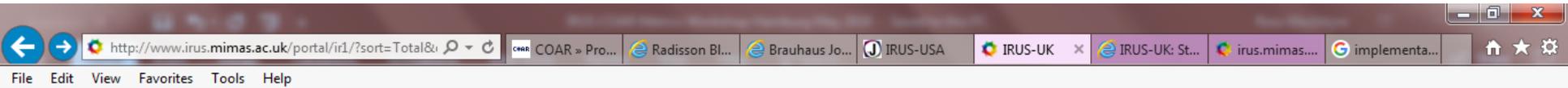
Date Run: 2018-05-14

Number of results 134

Repository	Total	Jan-2018	Feb-2018	Mar-2018	Apr-2018
Totals	17,426,827	3,775,968	3,873,887	4,892,700	4,884,272
ARRO - Anglia Ruskin Research Online	10,596	2,560	1,876	2,486	3,674
Aberdeen University Research Archive (AURA)	47,234	10,105	11,043	13,002	13,084
Abertay Research Portal	8,329	1,231	1,758	2,282	3,058
Aberystwyth University - CADAIR	25,237	5,296	6,345	7,167	6,429
Apollo - University of Cambridge Repository	803,159	154,136	141,750	296,311	210,962
Aston Publications Explorer	89,216	18,933	20,531	25,974	23,778
BG Research Online	552	109	62	147	234
BIROn - Birkbeck Institutional Research Online	73,497	16,097	16,059	20,129	21,212
Bath Spa University - ResearchSPaCe	8,178	1,604	1,991	2,322	2,261
Bournemouth University BURO	227,957	45,807	49,250	67,526	65,374
Bradford Scholars	85,256	17,016	22,359	22,937	22,944



IRUS-UK: Item Report 1



Item Report 1 (IR1), Number of Successful Item Download Requests by Month and Repository Identifier

Item Report 1 (IR1), Number of Successful Item Download Requests by Month and Repository Identifier

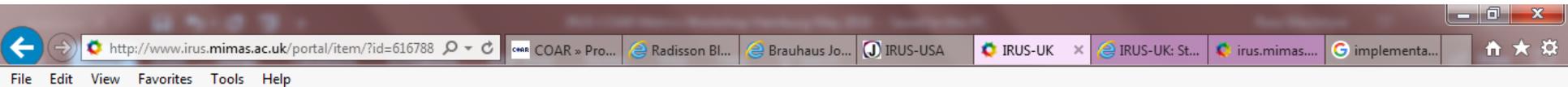
Period covered by Report:	2018-01-01 to 2018-04-30
Filters	Repository:Apollo - University of Cambridge Repository;
Date Run	14/05/2018
Number of results	23,550

Previous page **001** 002 003 004 005 006 007 008 009 010 ... 471 Next page

ItemURL	Title	Author	Itemtype	Total	Jan-2018	Feb-2018	Mar-2018	Apr-2018
Totals				803,159	154,136	141,750	296,311	210,962
https://www.repository.cam.ac.uk/handle/1810/251038	Properties of expanding universes	Hawking, Stephen	Thesis or Dissertation	224,617	35,441	18,526	137,756	32,894
http://www.repository.cam.ac.uk/handle/1810/246429	The Effect of Police Body-Worn Cameras on Use of Force and Citizens' Complaints Against the Police: A Randomized Controlled Trial	Ariel, Barak; Farrar, William; Sutherland, Alex	Article	7,643	1,736	1,745	1,976	2,186
http://www.repository.cam.ac.uk/handle/1810/247570	What Is Liberalism?	Bell, Duncan	Article	4,700	718	962	1,382	1,638
http://www.repository.cam.ac.uk/handle/1810/246157	Error of law and flawed administrative acts	Feldman, David	Article	3,633	1,042	728	972	891
http://www.dspace.cam.ac.uk/handle/1810/236978	'Kind of Blue' and the Economy of Modal Jazz	Barrett, Samuel	Article	3,605	806	848	969	982
http://www.dspace.cam.ac.uk/handle/1810/223992	Remains of battlefield at Verdun	Filippucci, Paola	Image	3,327	648	677	646	1,356



IRUS-UK: Item Statistics



Item Statistics

The Effect of Police Body-Worn Cameras on Use of Force and Citizens' Complaints Against the Police: A Randomized Controlled Trial



- 85 Total citations
- 79 Recent citations
- 56 Field Citation Ratio
- n/a Relative Citation Ratio



- Picked up by 77 news outlets
- Blogged by 10
- Referenced in 1 policy sources
- Tweeted by 264
- Mentioned by 1 weibo users
- On 28 Facebook pages
- Referenced in 2 Wikipedia pages
- Mentioned in 10 Google+ posts
- 1 readers on CiteULike
- 194 readers on Mendeley

[See more details](#)

Repository	Apollo - University of Cambridge Repository
URL	http://www.repository.cam.ac.uk/handle/1810/246429
Author(s)	Ariel, Barak; Farrar, William; Sutherland, Alex
Item Type	Article
DOI	https://doi.org/10.1007/s10940-014-9236-3

Monthly stats

Monthly stats by country

Daily stats

Daily stats by country

Consolidated monthly stats

Usage Date Range

From date: May-2016 To date: Apr-2018 Update



IRUS-UK: ORCID

The screenshot shows a web browser window with the URL http://www.irus.mimas.ac.uk/portal/author_authority. The page header includes the IRUS-UK logo and the text "After you've finished, please remember to Log out" and "Last update: 12th May 2018". The navigation menu contains: Home, Statistics Reports, Metadata Reports, Metadata Views, Metastatistics Views, and Visualisations. A search bar is present with the text "More search options".

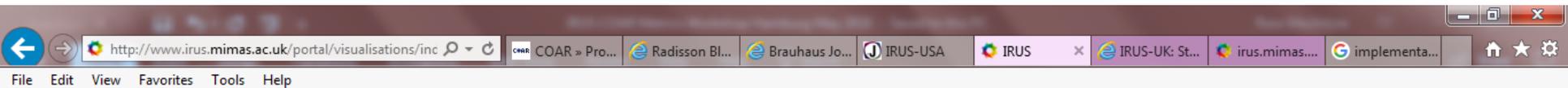
Author ORCID iD browse

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

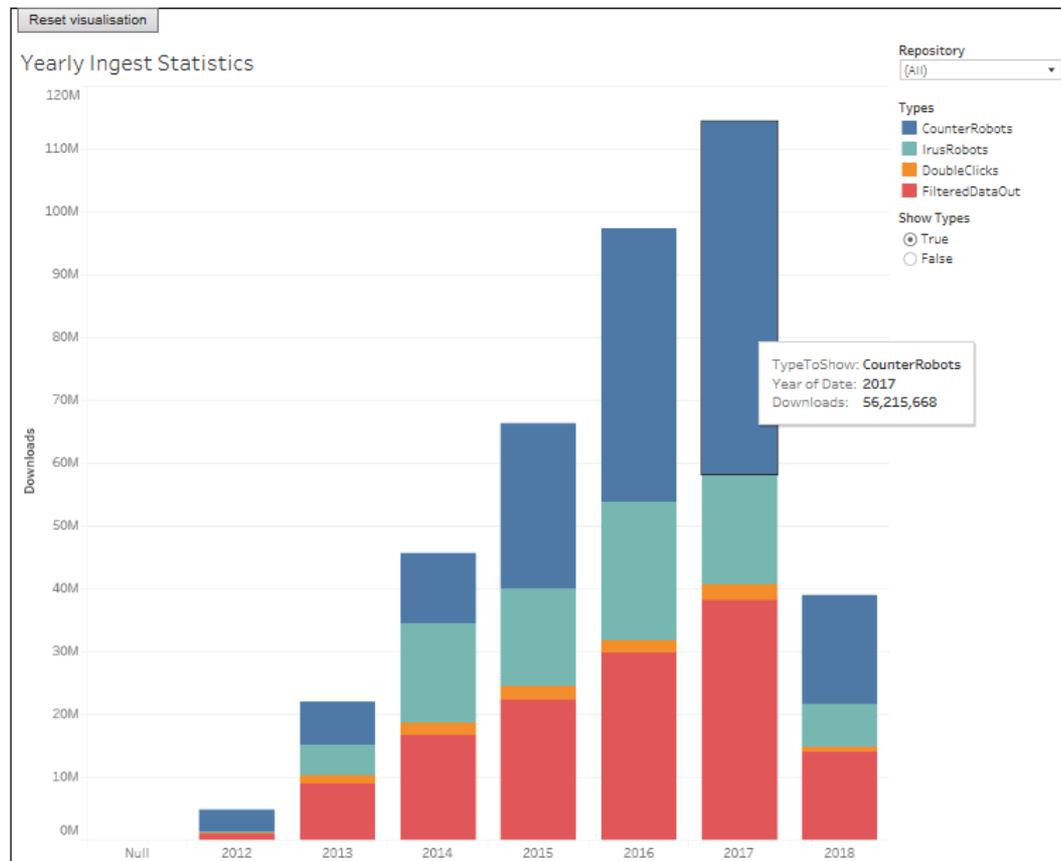
A

Author	Identifier	Number of Items	Total Downloads
Abdelgaied, A	https://orcid.org/0000-0003-0066-1688	1	16
Abouhossein, A	https://orcid.org/0000-0001-8697-1593	6	312
Abrams, KJ.	https://orcid.org/0000-0002-2789-7204	1	2
Absolom, K	https://orcid.org/0000-0002-5477-6643	2	153
Actis, P	https://orcid.org/0000-0002-7146-1854	4	199
Adams, Anne	https://orcid.org/0000-0001-8990-5014	42	55784
Adams, C	https://orcid.org/0000-0002-3992-0555	1	22
Adamson, Joy	https://orcid.org/0000-0002-9860-0850	12	1529
Adderley, UJ	https://orcid.org/0000-0003-1894-3755	1	1
Adepeju, MO	https://orcid.org/0000-0002-9006-4934	2	24

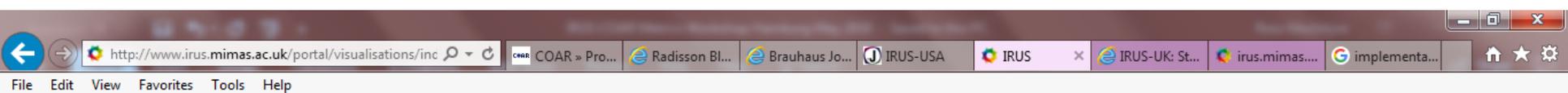
IRUS-UK: Visualisation - Ingest Statistics



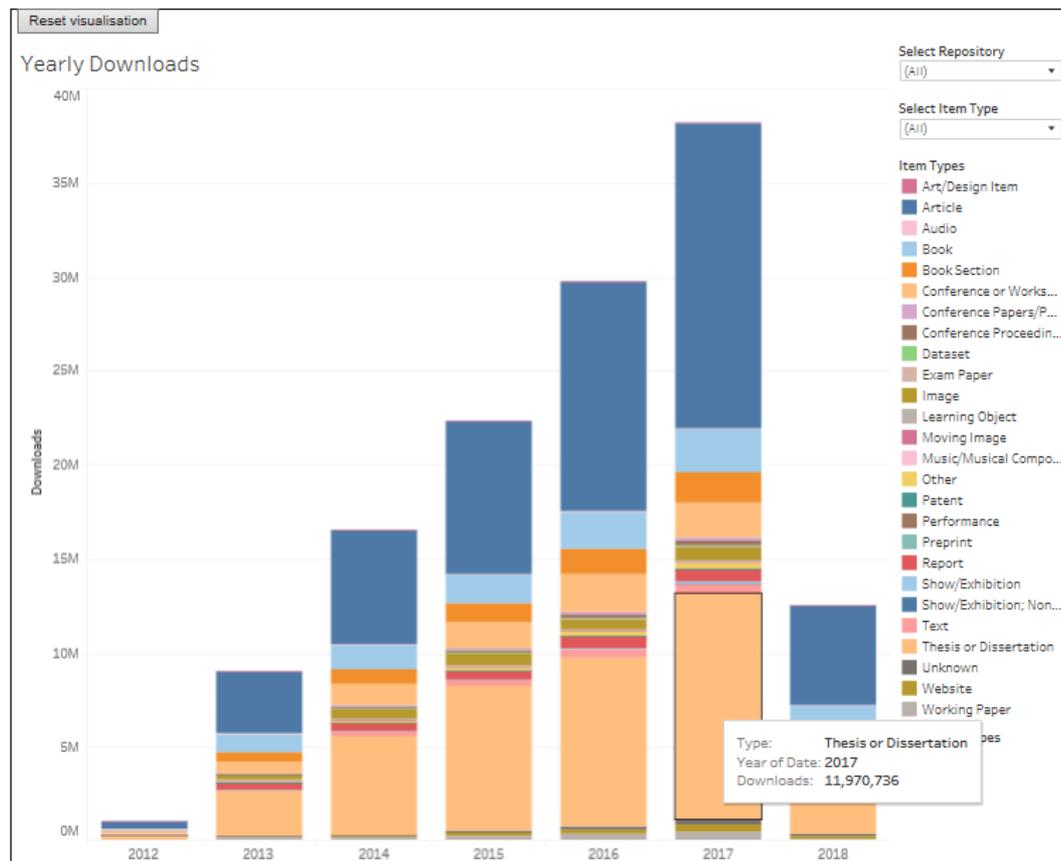
Visualisations



IRUS-UK: Visualisation – Yearly Downloads



Visualisations



What next?

- **Standards development:**
 - COUNTER Robots Working Group
 - COUNTER Release 5
- **Other IRUS services:**
 - Research Data: IRUSdata
 - IRUS-CORE
 - IRUS-OAPEN
- **New user communities:**
 - IRUS-USA
 - IRUS-ANZ

Contacts & Information

IRUS-UK web site:

- <http://irus.mimas.ac.uk/>

Contact IRUS-UK:

- irus@mimas.ac.uk
- [@IRUSNEWS](#)

COUNTER web site:

- <http://www.projectcounter.org/>

Contact COUNTER:

- <http://www.projectcounter.org/contact.html>
- [@projectCOUNTER](#)