

## Copyright compliance and infringement in ResearchGate full-text journal articles

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This file includes some more analyses on the data published in the above article, accepted for publication in *Scientometrics*, <http://dx.doi.org/10.1007/s11192-017-2291-4>

### APPENDIX

#### Authorship attributes

In all, on average each article had 4.5 authors (Min = 1, Max = 25, SD = 2.9). In the case of non-compliant articles, the average number of authors was 4.6 (SD = 2.8) which is not much different from the compliant articles (M = 4.7, SD = 3.4). Forty-six articles (9.2%) were single-authored, about two-fifths (159; 31.8%) of articles were uploaded by their first authors, and 108 (21.6%) by their last authors. Authorship of 135 (27%) articles included international collaboration and the other 365 (73%) did not. The files of articles have been uploaded between 3 Jan 2014 and 2 Aug 2015 or 29 July 2015.

From the 500 authors who were responsible for uploading full-text files onto ResearchGate, 407 (81.4) were male and 93 (18.6) were female. Male authors accounted for the upload of 83.6% of non-compliant articles. The profile of 379 (75.8%) of all articles included their image and this figure for non-compliant articles was 79.6%. Adding photo to the profile could be considered as an indication for the level of engagement of the member with the site. Looking at the statistics of the non-compliant articles, most of them are similar to the whole sample and chi-square test showed no significant difference between compliant and non-compliant articles in any of the features presented in Table 1.

**Table 1. Some authorship attributes of articles**

		All articles (N = 500)		Non-compliant articles (N = 201)		Compliant articles (excluding OA) (N = 191)		OA articles (N = 108)	
		N	%	N	%	N	%	N	%
gender	Male	407	81.4	168	83.6	157	82.2	82	75.9
	Female	93	18.6	33	16.4	34	17.8	26	24.1
Image	Yes	379	75.8	160	79.6	139	72.8	80	74.1
	No	121	24.2	41	20.4	52	27.2	28	25.9
Single Author		46	9.2	14	7.0	22	11.5	10	9.3
First author		205	41	64	31.8	76	39.8	51	47.2
Last author		154	30.8	49	24.3	57	29.8	34	31.5
International Collaboration	Yes	135	27.0	62	30.8	51	26.7	22	20.4
	No	365	73.0	139	69.2	140	73.3	86	79.6

The median for the number of publications (including journal articles, conference papers and so on) of each uploading author for all articles was 48 and for non-compliant articles was 49. Median of RG Score for all authors and non-compliant authors were the same (26). Mann-Whitney U test for RG score, numbers of publications, journal articles and full-text articles showed no significant difference between non-compliant and compliant articles. See Table 2.

**Table 2. Statistics for some attributes of uploading authors**

	All articles (N = 500)					Non-compliant articles (N = 201)			Compliant articles (excluding OA) (N = 191)			OA articles (N = 208)		
	Min	Max	Mean	Median	SD	Mean	Median	SD	Mean	Median	SD	Mean	Median	SD
RG score	0	56	25.4	26	11.9	26.5	26	10.9	27.6	30	11.9	19.5	18.4	11.9

No of publications	1	1275	80.1	48	101.6	85.1	49	100.6	89.7	55	118.9	53.6	33	56.2
Number of articles	1	1262	70.1	40	95.3	72.9	42	88.8	82.1	48	116.5	46.7	28	51.4
No of full-text articles	0	597	28.2	16	42.4	31.3	18	53.2	27.8	18	33.4	22.9	11	32.1

Authors responsible for uploading 500 articles were from 61 countries (Table 3). The lists of top ten countries for the whole sample and only for the non-compliant articles are presented in Table 5. As expected countries that publish more articles including USA, UK and China are on the top of the list in terms of the number of articles. The order of countries for non-compliant articles is a little different as countries such as China, Italy and France ranked higher while some other countries such as Germany, UK and India ranked lower compared to their rank in the whole sample.

**Table 3. Country affiliation of uploading authors**

All articles			Non-compliant articles		
Country	N	%	Country	N	%
USA	107	21.4	USA	38	18.9
UK	28	5.6	China	12	6.0
China	27	5.4	Italy	12	6.0
Germany	24	4.8	France	11	5.5
India	22	4.4	Germany	10	5.0
Italy	22	4.4	Turkey	9	4.5
France	21	4.2	UK	9	4.5
Spain	21	4.2	Canada	8	3.9
Canada	16	3.2	India	8	3.9
Netherlands	14	2.8	Netherlands	8	3.9
51 other countries	198	39.6	33 other countries	76	37.8

## Attributes of articles

Table 4 shows descriptive statistics for the articles. As the data do not have a normal distribution, it is safer to look at the median. The median for the number of citation to each article was 4, for the number of download was 29, and for the number of views was 87. Looking at these statistics for non-compliant articles only, median for number of views, downloads and citations were 89, 31 and 4 respectively. Mann-Whitney U test showed significant difference between compliant and non-compliant items only for the number of citation ( $U = 16698$ ,  $p < 0.05$ ).

**Table 4. Statistics for some attributes of articles**

	All articles (N = 500)					Non-compliant articles (N = 201)			Compliant articles (excluding OA) (N = 191)			OA articles (N = 108)		
	Min	Max	Mean	Median	SD	Mean	Median	SD	Mean	Median	SD	Mean	Median	SD
No of views	7	554	96.8	87	70.3	102.5	89	80.9	102.8	91	62.4	75.3	60	57.2
No of downloads	0	768	57.0	29	77.6	58.6	31	82.5	55.3	27	191.9	51.5	28	87.4
No of citations	0	502	15.50	4	36.2	14.5	4	27.5	22.8	8	49.7	4.3	1	8.3