

Altmetric Counts from Different Sources – A Case Study of JASIST Articles Published Between 2001 and Mid 2017

Judit Bar-Ilan, Bar-Ilan University

and

Gali Halevi, Icahn School of Medicine at Mount Sinai

Altmetric data sources and aggregators

- In this presentation, data sources
 - Mendeley
 - Twitter
 - Blogs
 - Wikipedia
 - Mainstream news
- Aggregators
 - Altmetric
 - PlumX

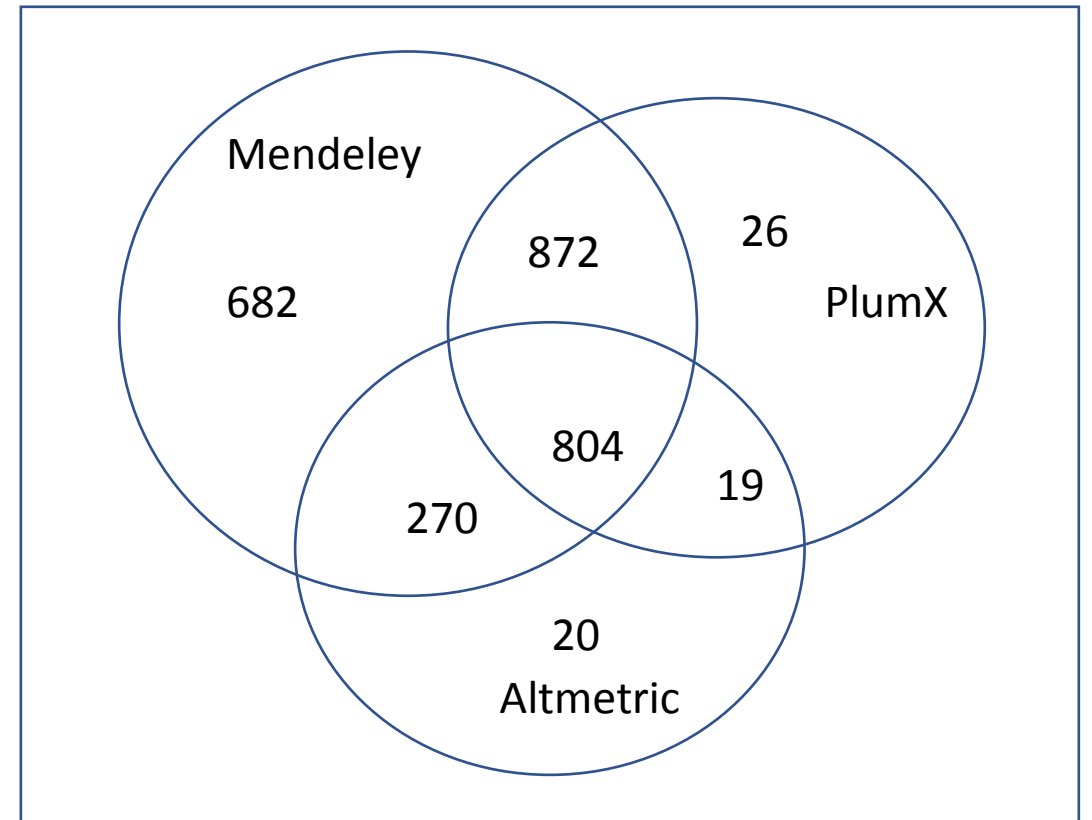
Questions and answers

- For a given indicator (say Wikipedia mentions of an article), do they provide the same number?
- Is the data we receive from the data sources and aggregators reliable?
- In order to answer these question data were collected from Altmetric, Mendeley and Plumx on June 29,2017 on 2,728 articles and reviews published in JASIST between 2001 and 2017 (partial year)

Mendeley on the three platforms

- Mendeley: reader counts for 2,628 articles (96%)
- Altmetric: reader counts for 1,113 articles (41%)
 - Reports reader counts only if the article has at least one other indicator
- PlumX: reader counts for 1,721 articles (63%)

Mendeley found no readers for 65 articles, where counts were reported by the aggregators



Why?

- Perhaps because Mendeley periodically reorganizes its content
 - Users remove the item from their libraries?
 - Data cleansing by Mendeley?
- Are the number of readers per article the same?

X & Y	all	same	X more	Y more
X=Mendeley,Y=PlumX	1,676	706 (42%)	522 (31%)	448 (27%)
X=Mendeley,Y=Altmetric	1,074	875 (82%)	184 (17%)	15 (1%)
X=PlumX, Y=Altmetric	823	280 (34%)	309 (38%)	234 (28%)

Twitter– Almetric vs. PlumX

- Almetric: Twitter counts for 980 articles
 - Average number of tweets per article: 7.2
- PlumX: Twitter counts for 824 articles
 - Average number of tweets per article: 9.2
- Almetric & PlumX : both found tweets for 800 articles

	#A=#P	#A>#P	#P>#A
Almetric & PlumX	336	225	239

Blogs, Wikipedia and News

	# articles mentioned in blog	sum of blog mentions	# articles mentioned in Wikipedia	sum of Wikipedia mentions	# articles mentioned in mainstream media	sum of mentions in mainstream media
Altmetric	153	265	82	108	25	55
PlumX	37	62	77	103	7	9

Whom should we believe?

- Altmetric?
- Mendeley?
- PlumX?
- Crossref?

