Webometrics 網路大學排名分析

資工系助理教授兼圖資處資訊應用組組長 陳嘉平

資料收集：圖資處資訊應用組潘筱薇、資工系許峰閣

Webometrics Data

Institute	Visibility	Size*	pdf	ps	ppt	doc	Scholar
Seoul National University	243,291	1,980,000	18,400	202	2,140	689	10,900
National Sun Yat-Sen University	348,389	509,000	12,200	237	1,770	6,790	17,100
University of Hong Kong	387,830	563,000	67,300	557	1,830	3,700	39,200
National University of Singapore	389,161	222,000	47,500	860	1,600	3,320	10,400
Peking University	1,139,766	503,000	12,700	229	2,120	6,740	7,020
University of Cambridge	1,578,969	876,000	70,900	2,900	1,490	4,470	14,000
University of Tokyo	1,579,719	544,000	98,400	545	2,520	3,100	28,700
National Taiwan University	1,817,000	761,000	94,600	209	6,240	22,600	210,000
Stanford University	6,249,770	2,460,000	297,000	9,690	10,100	9,280	51,600
Harvard University	6,279,581	9,330,000	143,000	4,990	3,490	6,140	2,050,000
Massachusetts Institute of Technology	8,625,892	1,890,000	468,000	12,500	4,470	3,630	71,000

2010.06.07

Logarithm

Institute	Visibility	Size*	pdf	ps	ppt	doc	Scholar
Seoul National University	5.39	6.30	4.26	2.31	3.33	2.84	4.04
National Sun Yat-Sen University	5.54	5.71	4.09	2.37	3.25	3.83	4.23
University of Hong Kong	5.59	5.75	4.83	2.75	3.26	3.57	4.59
National University of Singapore	5.59	5.35	4.68	2.93	3.20	3.52	4.02
Peking University	6.06	5.70	4.10	2.36	3.33	3.83	3.85
University of Cambridge	6.20	5.94	4.85	3.46	3.17	3.65	4.15
University of Tokyo	6.20	5.74	4.99	2.74	3.40	3.49	4.46
National Taiwan University	6.26	5.88	4.98	2.32	3.80	4.35	5.32
Stanford University	6.80	6.39	5.47	3.99	4.00	3.97	4.71
Harvard University	6.80	6.97	5.16	3.70	3.54	3.79	6.31
Massachusetts Institute of Technology	6.94	6.28	5.67	4.10	3.65	3.56	4.85

Normalization and Standing

Institute	Vis	Size*	pdf	ps	ppt	doc	Scholar	Score	Standing
Seoul National University	0.78	0.90	0.75	0.56	0.83	0.65	0.64	77.02	11
National Sun Yat-Sen University	0.80	0.82	0.72	0.58	0.81	0.88	0.67	77.88	9
University of Hong Kong	0.81	0.83	0.85	0.67	0.81	0.82	0.73	79.96	8
National University of Singapore	0.81	0.77	0.82	0.72	0.80	0.81	0.64	77.25	10
Peking University	0.87	0.82	0.72	0.58	0.83	0.88	0.61	80.82	7
University of Cambridge	0.89	0.85	0.86	0.85	0.79	0.84	0.66	84.22	5
University of Tokyo	0.89	0.82	0.88	0.67	0.85	0.80	0.71	84.12	6
National Taiwan University	0.90	0.84	0.88	0.57	0.95	1.00	0.84	88.34	4
Stanford University	0.98	0.92	0.97	0.97	1.00	0.91	0.75	93.07	3
Harvard University	0.98	1.00	0.91	0.90	0.88	0.87	1.00	97.41	1
Massachusetts Institute of Technology	1.00	0.90	1.00	1.00	0.91	0.82	0.77	93.88	2

Simplification and Approximation

- Size
  - Google only
- Normalization
  - by the local maximum, not by the global maximum
- Combined score
  - based on log-normalized value, not based on the rank
- Data is dynamic
  - could change dramatically in the next few weeks

Catching Up

- Focus on the rich files
  - Make the ppt files visible to the spiders
  - Provide multiple formats for each document
  - Not difficult to do, but require *manual* efforts by the faculty and the staff
  - Need immediate actions as it takes time for the search engine to update their database
- Based on current data, the difference is predicted to be *very* significant . . .