

Universidade do Porto no Webometrics - Ranking Web of Universities January 2015

<http://www.webometrics.info/>

I. Metodologia do Webometrics e participação da U.Porto

"The **Ranking Web or Webometrics** is the largest academic ranking of Higher Education Institutions. Since 2004 and every six months an independent, objective, free, open scientific exercise is performed by the **Cybermetrics Lab (Spanish National Research Council, CSIC)** for the providing reliable, multidimensional, updated and useful information about the performance of universities from all over the world based on their web presence and impact.

[...]

Objectives and motivation

The original aim of the Ranking is to promote academic web presence, supporting the Open Access initiatives for increasing significantly the transfer of scientific and cultural knowledge generated by the universities to the whole Society. In order to achieve this objective, the publication of rankings is one of the most powerful and successful tools for starting and consolidating the processes of change in the academia, increasing the scholars' commitment and setting up badly needed long term strategies.

The objective is not to evaluate websites, their design or usability or the popularity of their contents according to the number of visits or visitors. Web indicators are considered as proxies in the correct, comprehensive, deep evaluation of the university global performance, taking into account its activities and outputs and their relevance and impact.

At the end a reliable rank is only possible if the web presence is a trustworthy mirror of the university. In the second decade of the 21st century the Web is key for the future of all the university missions, as it is already the most important scholarly communication tool, the future channel for the off-campus distance learning, the open forum for the community engagement and the universal showcase for attracting talent, funding and resources.

Design and Weighting of Indicators

Webometrics uses an "a-priori" scientific model for building the composite indicator. Other rankings choose arbitrary weights for strongly dependent variables and even combine raw values with ratios. None of them follow a logical ratio between activity related and impact related variables, i.e. each group representing 50% of the total weighting. Referring to the individual variables, some of them have values larger than zero for only a few universities and others segregate universities according to differences so small that they are even lower than their error rates.

Prior to combination the values should be normalized, but the practice of using percentages is mostly incorrect due to the power law distribution of the data.

Webometrics log-normalize the variables before combining according to a ratio 1:1 between activity/presence and visibility/impact groups of indicators.

[...]

The current composite indicator is now built as follows:

Visibility (50%)

IMPACT. The quality of the contents is evaluated through a "virtual referendum", counting all the external inlinks that the University webdomain receives from third parties. Those links are recognizing the institutional prestige, the academic performance, the value of the information, and the usefulness of the services as introduced in the webpages according to the criteria of millions of web editors from all over the world. The link visibility data is collected from the two most important providers of this information: [Majestic SEO](#) and [ahrefs](#). Both use their own crawlers, generating different databases that should be used jointly for filling gaps or correcting mistakes. The indicator is the product of **square root of the number of backlinks** and the **number of domains** originating those backlinks, so it is not only important the link popularity but even more the link diversity. The maximum of the normalized results is the impact indicator.

Activity (50%)

PRESENCE (1/3). The total number of webpages hosted in the main webdomain (including all the subdomains and directories) of the university as indexed by the largest commercial search engine ([Google](#)). It counts every webpage, including all the formats recognized individually by Google, both static and dynamic pages and other rich files. It is not possible to have a strong presence without the contribution of everybody in the organization as the top contenders are already able to publish millions of webpages. Having additional domains or alternative central ones for foreign languages or marketing purposes penalizes in this indicator and it is also very confusing for external users.

OPENNESS (1/3). The global effort to set up institutional research repositories is explicitly recognized in this indicator that takes into account the number of rich files (pdf, doc, docx, ppt) published in dedicated websites according to the academic search engine [Google Scholar](#). Both the total files Both the total records and those with **correctly formed file names** are considered (for example, the Adobe Acrobat files should end with the suffix .pdf). The objective is to consider recent publications that now are those published between 2008 and 2012 (new period).

EXCELLENCE (1/3). The academic papers published in high impact international journals are playing a very important role in the ranking of Universities. Using simply the total number of papers can be misleading, so we are restricting the indicator to only those excellent publications, i.e. the university scientific output being part of the **10% most cited papers** in their respective scientific fields. Although this is a measure of high quality output of research institutions, the data provider [Scimago group](#) supplied non-zero values for more than 5200 universities (period 2003-2010). In future editions it is intended to match the counting periods between Scholar and Scimago sources.”¹

“Comments superseding the information provided in Methodology

Data collection for the new edition has finished without major problems, so the Ranking is now in its 12th year of publication. Please, take into account that the following information updates the contents of the Methodology section:

Revision of invalid entries

From this edition we are enforcing our policy of requesting full 24/7 availability of the websites, so those universities failing to answer our ping requests (two consecutive) to their servers are excluded.

Policy change regarding duplicate domains

As previously informed, we also changed our policy regarding the universities with two or more central web domains, a bad practice that it is going to be even more penalized than before. Until now, all the main web domains of the university were ranked, but only the one with the better web indicators was published, even if this was the old or the not-preferred one in the central homepage. This procedure is still applied when both domains maintain their independence, but If the old domain redirects to the new one, this will be the one ranked and published. As expected, this is having strong (negative) impact on a few universities.

Changes in the calculation of indicators

Regarding **PRESENCE**. Rich files are calculated (pdf, doc/docx, ppt/pptx, ps/eps) and excluded from the total number of web pages.

Regarding **VISIBILITY**. The 10 top linking domains and their corresponding backlinks are excluded.

Regarding **OPENNESS**. Google Scholar is again used for this indicator, combining the full number of items with those published during the 2010-2014 period.

Regarding **EXCELLENCE**. The Scimago data (top 10% most cited papers by discipline) for the five year period 2008-2012.”²

O Cybermetrics Lab não solicita informações às instituições.

¹ In <http://www.webometrics.info/en/Methodology> Acedido 16 fevereiro de 2015

² In JUST PUBLISHED: January 2015 edition, <http://www.webometrics.info/en/node/57> Acedido 16 fevereiro de 2015

II. Evolução³ da posição da Universidade do Porto no Webometrics

	2006	2006	2007	2007	2008	2008	2009	2009	2010	2010
	jan	jul	jan	jul	jan	jul	jan	jul	jan	jul
Ranking Mundo	447	269	264	261	251	267	271	149	214	230
Ranking Europa	163	96	93	96	87	99	101	40	67	79
Ranking Iberoamérica	n/d	n/d	n/d	n/d	n/d	n/d	n/d	6	6	12
Ranking Portugal	2	1	1	1	1	1	1	1	1	1

	2011	2011	2012	2012	2013	2013	2014	2014	2015 ⁴
	jan	jul	jan	jul	jan	jul	jan	jul	jan
Ranking Mundo	178	178	79	70	93	103	110	125	137
Ranking Europa	49	50	12	8	17	16	20	33	38
Ranking Iberoamérica	8	11	5	3	4	4	4	4	5
Ranking Portugal	2	1	1	1	1	1	1	1	1

n/d : não disponível

³ “Evolução das posições da Universidade do Porto nos rankings universitários”, janeiro de 2014, *in* https://sigarra.up.pt/up/pt/conteudos_service.conteudos_cont?pct_id=20113&pv_cod=55GoHdmanvlq

⁴ *In* <http://www.webometrics.info/> Acedido 16 fevereiro 2015

III. Posição das Universidades portuguesas no Webometrics - jan 2015 ⁵

Portugal Rank	Europa Rank	Mundo Rank	Universidade	Presence Rank	Impact Rank	Openness Rank	Excellence Rank
1	38	137	Universidade do Porto	125	271	93	243
2	85	228	Universidade do Minho	144	424	60	492
3	110	288	Universidade de Coimbra	305	520	209	427
4	140	354	Universidade Nova de Lisboa	129	799	213	504
5	194	470	Universidade de Aveiro	555	1305	175	437
6	344	859	Universidade de Lisboa	895	3977	717	176
7	363	918	Universidade da Beira Interior	931	1719	573	1270
8	383	970	Universidade de Évora	1146	2092	283	1322
9	432	1101	Universidade Católica Portuguesa	2029	1767	520	1631
10	462	1185	Instituto Politécnico do Porto	1980	2443	649	1316
11	487	1281	Universidade do Algarve	2734	2895	838	1139
12	519	1377	Universidade de Trás os Montes e Alto Douro	2790	3350	921	1079
13	570	1537	Universidade dos Açores	2611	3105	857	1798
14	593	1595	Instituto Politécnico de Bragança	1722	4963	455	1566
15	602	1637	Instituto Politécnico de Lisboa	1985	4416	736	1657
16	628	1702	Instituto Superior Politécnico de Viseu	3895	2599	1145	2333
17	639	1737	Universidade da Madeira	2822	3368	1764	1798
18	657	1800	ISCTE Instituto Universitário de Lisboa	2112	5759	444	1735
19	673	1858	Universidade Lusófona de Humanidades e Tecnologias	3581	3869	1069	2041
20	685	1910	Universidade Fernando Pessoa	4599	4273	726	2010
21	730	2067	Instituto Politécnico de Leiria	4511	3827	1948	2025
22	812	2340	Instituto Superior de Psicologia Aplicada	209	7378	1398	2663
23	852	2508	Instituto Politécnico de Setúbal	2673	4385	3870	2459
24	923	2800	Instituto Politécnico de Castelo Branco	3935	6643	850	3084
25	980	3073	Universidade Aberta	2961	7817	1172	3200
26	987	3105	Instituto Politécnico de Tomar	3411	6019	3375	2891
27	1015	3211	Instituto Politécnico de Beja	4414	5167	2436	3695
28	1047	3350	Instituto Politécnico de Viana do Castelo	3772	6470	3245	3133
29	1068	3427	Instituto Politécnico de Santarém	3127	6357	1945	3980
30	1218	4027	Instituto Politécnico de Guarda	6537	7207	1295	4421
31	1412	4876	Instituto Superior da Maia	8045	9806	4683	2843
32	1484	5178	Instituto Politécnico do Cavado e do Ave	5783	8817	5732	3596
33	1547	5436	Universidades Lusíada de Lisboa	5223	9840	1151	5414
34	1577	5567	Instituto Politécnico de Portalegre	5418	5676	9167	4421

⁵ In <http://www.webometrics.info/> Acedido 16 fevereiro 2015

Portugal Rank	Europa Rank	Mundo Rank	Universidade	Presence Rank	Impact Rank	Openness Rank	Excellence Rank
35	1605	5668	Instituto Politécnico de Coimbra	7114	9750	12377	2084
36	1666	5932	Instituto Piaget	7200	9410	6642	3596
37	1712	6119	Escola Superior de Educação de Coimbra	3955	8761	3990	5414
38	1785	6385	Universidade Atlântica	2802	14248	2261	4158
39	1830	6557	Universidade Portucalense Infante D Henrique	7358	9964	2334	5414
40	1924	6931	Instituto Superior Politécnico de Gaya	3466	8558	6720	5414
41	2038	7388	Escola Superior de Educação Paula Frassinetti	5864	12479	1920	5414
42	2069	7513	Instituto Superior de Engenharia de Lisboa	8961	9820	3678	5414
43	2075	7528	Cooperativa de Ensino Superior, Politécnico e Universitário	8543	12328	11175	2459
44	2109	7676	Escola Superior de Enfermagem do Porto	2369	13101	4861	4808
45	2205	8011	Escola Superior Agrária de Elvas	17354	5716	6537	5414
46	2255	8252	Instituto Superior Miguel Torga	9108	11930	2624	5414
47	2266	8287	Instituto Superior de Engenharia de Coimbra	6763	11438	4237	5414
48	2365	8679	Instituto de Artes Visuais, Design e Marketing	14950	8691	7022	4808
49	2629	9731	Escola Superior de Enfermagem de Coimbra	7110	11639	12377	4158
50	2757	10290	Escola Superior Agrária de Coimbra	10774	11997	5569	5414
51	2886	10834	Instituto Superior Dom Afonso III	14218	13393	6225	4421
52	2907	10917	Escola Superior de Saúde de Portalegre	17606	7812	10269	5414
53	2987	11182	Instituto Superior de Línguas e Administração Leiria	7776	11317	10780	5414
54	2995	11214	Escola Superior de Enfermagem de Lisboa	14559	14156	4731	4808
55	3047	11378	Universidade Lusófona do Porto	11072	13257	13206	3695
56	3085	11514	Instituto Superior de Contabilidade e Administração de Coimbra	8276	13000	8233	5414
57	3099	11571	Escola Superior de Artes e Design Matosinhos	12590	9182	13206	5414
58	3123	11641	Instituto Português de Administração de Marketing Aveiro / Porto / Lisboa	14680	10486	9270	5414
59	3201	11876	Escola Superior de Hotelaria e Turismo do Estoril	11437	12057	8919	5414
60	3341	12371	Universidades Lusíada de Famalicão	9083	13766	8739	5414
61	3364	12435	Universidades Lusíada do Porto	6590	12652	13206	5414
62	3463	12724	Escola Superior de Educação de Portalegre	8823	15521	6807	5414
63	3503	12848	Instituto Superior de Ciências Empresariais e Turismo	12264	13541	8340	5414
64	3522	12898	Escola Superior Artística do Porto	12896	11126	13206	5414
65	3548	12991	Instituto Superior de Gestão	13195	11217	13206	5414

Portugal Rank	Europa Rank	Mundo Rank	Universidade	Presence Rank	Impact Rank	Openness Rank	Excellence Rank
66	3643	13312	Escola Superior de Tecnologia e Gestão de Portalegre	8642	14462	10552	5414
67	3657	13359	Instituto Superior Bissaya Barreto	17568	12879	8138	5414
68	3706	13500	Escola Náutica Infante Dom Henrique	15166	13398	8954	5414
69	3748	13621	Escola Superior de Música e Artes do Espectaculo	17214	11336	12377	5414
70	3775	13696	Escola Superior de Tecnologia da Saúde de Coimbra	9531	14923	9958	5414
71	3784	13718	Instituto Superior de Educação e Ciências	11600	14678	9167	5414
72	3812	13799	Academia Militar Portugal	13734	14503	13206	4421
73	3821	13837	Escola Superior de Tecnologias e Artes de Lisboa ESTAL	17112	13163	9167	5414
74	3875	13997	Universidade Europeia (Instituto Superior de Linguas e Administração Lisboa)	5492	15474	13206	5414
75	3932	14192	Instituto Superior de Administração e Gestão	8596	14656	13206	5414
76	4101	14734	Escola Superior de Saúde de Alcoitão	19137	14640	12377	4421
77	4182	14994	Escola Superior de Saúde Egas Moniz	18103	17258	13206	3424
78	4216	15113	Instituto Superior Novas Profissões	14928	13971	13206	5414
79	4221	15126	Instituto Superior de Comunicação Empresarial	18228	15494	8014	5414
80	4235	15168	Escuela Universitaria das Artes de Coimbra	15494	13895	13206	5414
81	4330	15463	Instituto Superior de Serviço Social do Porto	8079	17040	12377	5414
82	4381	15610	Instituto Superior de Saúde do Alto Ave	17615	16471	10269	4808
83	4390	15626	Escola Superior de Educação de Torres Novas	17407	17346	6375	5414
84	4471	15853	Escola Superior Gallaecia	15337	15712	11175	5414
85	4584	16175	Instituto de Estudos Superiores de Fafe	13314	15954	13206	5414
86	4603	16258	Instituto Superior Autónomo de Estudos Politécnicos	11567	16544	13206	5414
87	4648	16395	Instituto Superior de Ciências da Informação e de Administração	18465	14756	13206	5414
88	4694	16574	Instituto de Estudos Superiores Financeiros e Fiscais	19232	15776	10734	5414
89	4835	17071	Escola Superior de Educação João de Deus	19855	15380	13206	5414
90	4857	17120	Escola Universitária Vasco da Gama	15323	19056	13206	4158
91	4858	17122	Escola Naval da Marinha	20367	16034	11175	5414
92	4916	17323	Instituto Superior de Paços de Brandão	17539	16499	13206	5414
93	4922	17345	Instituto Superior de Tecnologias Avançadas Lisboa / Porto	20870	15435	13206	5414
94	4941	17411	Escola Superior de Educação Almeida Garret	15025	17315	13206	5414
95	4963	17499	Instituto Superior de Gestão Bancária	14523	18674	9958	5414

Portugal Rank	Europa Rank	Mundo Rank	Universidade	Presence Rank	Impact Rank	Openness Rank	Excellence Rank
96	5011	17705	Escola Superior de Actividades Imobiliarias	19175	16508	13206	5414
97	5100	18042	Instituto Superior de Administração e Línguas da Madeira	19378	16954	13206	5414
98	5122	18122	Escola Superior de Enfermagem de São José de Cluny	10298	19310	13206	5414
99	5141	18196	Escola Superior de Educadores de Infância Maria Ulrich	20121	17755	10780	5414
100	5167	18285	Escola Superior de Enfermagem Dr José Timóteo Montalvão Machado	18485	19470	8014	5414
101	5256	18633	Instituto Superior de Ciências Policiais e Segurança Interna	19626	18618	10269	5414
102	5275	18701	Escola Superior Artística do Porto Guimaraes	18952	17907	13206	5414
103	5300	18788	Escola Superior de Enfermagem São Francisco das Misericórdias	14531	19109	13206	5414
104	5395	19233	Escola Superior de Enfermagem de Vila Real	22354	17756	12377	5414
105	5601	20231	Universidade Autónoma de Lisboa	14551	20813	13206	5414
106	5649	20434	Escola Superior de Enfermagem de Santa Maria	14620	21327	12060	5414
107	5650	20436	Instituto Superior de Entre Douro e Vouga	23247	18218	13206	5414
108	5658	20482	Instituto Superior de Ciências Educativas Odivelas/Mangualde/Felgueiras	23430	17652	13206	5414
109	5873	21666	Universidade dos Açores Escola Superior de Enfermagem de Angra do Heroísmo	22188	21178	13206	5414