

Universidad Nacional Autónoma de México



and the International University Rankings Abril 14, 2011

Web, the best showcase for the Universities Isidro F. Aguillo







What is a ranking

A Global Ranking of Universities is a new tool, close but not identical to the methods and targets of the national rankings

A simple approach

- Based on a composite index
 - A few ones, using bibliometrics variables, developed "crown indicators", usually complex ratios between papers and citations
 - Subjective weighting
- Excluding "non-academic" variables
 - Costs, housing availability, living standards, safety, sports
- Size dependent
 - Sometimes one or several variables presented as ratios

World-class Universities

- Focusing on excellence ("elite" institutions)
 - Top 500: Nobel Prizes, Highly cited scientists
 - US model: The research university
- Global scenario: Comparison between national systems

ACTIVITY

Web pages (three missions) Documents (rich files) Scientific Papers

IMPACT

Link Visibility/Mentions

(Sitations, Prestige, Links inter pares, Super-sites, Quality contents) Popularity

(Visits/visitors, Downloads)

Prestige (Peer-review by surveys) Degrees Granted Citations per paper Awards/Prizes

Cybermetrics

DTHER RANKINGS

WEBOMETRICS

Students/Faculty Ratio Internationalisation Papers per Faculty Resources (investment, grants, projects, library, computers)

Weighting the model

Most of the Global Rankings use an arbitrary weighting system, without an underlying model

RANKING	ACTIVI	ITY IMPACT		
ARWU (Shanghai)	40%	60%		
TIMES HE (2010)	35%	65%		
QS (former THES)	30%	70%		
HEEACT (Taiwan)	20%	80%		
WR (Webometrics)	50%	50%		



Quality

Quality can be measured by consensus or majority of experts evaluating the targeted topic

Survey

- Topic: Perceived (subjective) academic reputation
- Expertise: Peers with specialised and localised knowledge (global is required)
- Size: Medium (a few thousands)

Citation analysis

- Topic: Empirical (objective) scientific impact (formal communication)
- Expertise: Peers
- Size: Small (a few dozens)

Link analysis

- Topic: Quality of academic/para-academic web contents
- Expertise: Web-editors (peers and non-peers)
- Size: Huge (millions)



A critical review

Surprisingly most of the Rankings are being accepted without a critical review of the authorship, the methodology and the results

Ranking	Missions	Indicators	Model	Results	Comments
ARWU	Research	Scientific excellence	No model	(Top 200) Correlated	World class universities (incomplete, mistakes, old data)
WEBOMETRICS	All	Activity & Impact (Web)	Impact factor based	Correlated (except bad web practices)	World universities (no web policies, search engines biases, large databases)
QS	All	Prestige (Surveys) & Impact (Citations)	No model	Correlated (suspicious biases)	World and regional class universities (incomplete, geographical biases)
HEEACT	Research	Activity & Impact (Papers, Citations)	No model	Correlated	World research universities (variables not independent)
LEIDEN	Research	Impact (Citations/Papers)	Crown indicator	Several "rankings"	World research universities (questioned methodology)
SCIMAGO	Research	Activity OR Impact (Papers, Citations)	Rank by default (size)	Several "rankings"	World research institutions (no composite ranking)
THE	All	Activities, Prestige (Surveys) & Impact (Citations)	No model	Not valid	Methodology applied incorrectly, unethical (non-cooperating universities are not identified)

Cybermetrics Lab

Main World Rankings

Country	ARWU	WR11	HEEACT	CWTS	SCIM	QS	Country	ARWU	WR11	HEEACT	CWTS10	SCIM	QS
United States	155	174	159	135	126	108	India	2		2	1	4	8
Germany	39	48	45	46	39	42	Hungary	2	3	1	4	1	2
United Kingdom	38	36	38	38	36	51	Russia	2	1	1	2	2	5
Italy	22	18	29	32	25	15	South Africa	3	2	1	2	4	3
Japan	25	14	28	24	29	25	Czech Republic	1	4	1	2	1	2
Canada	23	24	22	19	22	20	Singapore	2	2	2	2	2	2
France	22	12	22	23	10	21	Thailand		4	1		2	4
Spain	10	24	13	20	14	10	Saudi Arabia	2	1				3
Australia	17	14	10	9	11	24	Chile	2	1	2	1	2	2
China	22	5	16	13	51	10	Argentina	1	1	1	2	1	2
Netherlands	12	9	12	12	12	12	Mexico	1	1	1	1	2	2
Sweden	11	10	11	10	10	8	Slovenia	1	1	1	1	1	
South Korea	10	2	10	8	13	13	Iran	1				2	1
Switzerland	7	7	8	7	7	8	Estonia		1		1		
Taiwan	7	14	5	6	8	9	Colombia		1				
Belgium	7	6	7	7	7	7	Costa Rica		1				
Finland	6	7	6	7	4	7	Croatia				1	1	
Austria	7	5	6	6	3	5	Slovakia				1		
Israel	7	4	5	7	5	4	Serbia					1	
Hong Kong	5	6	5	5	5	6	Malaysia						5
Brazil	6	11	7	5	7	3	Indonesia						4
Denmark	4	4	4	4	3	5	Philippines						3
Ireland	3	4	3	3	3	8	Egypt					1	1
Greece	2	3	4	6	4	5	United A Emirates						1
Norway	4	4	4	4	3	4	Uruguay						1
Portugal	2	6	3	6	5	3	Kazakhstan						1
New Zealand	5	2	2	2	2	6	Lebanon						1
Turkey	1	1		9	5	5	Pakistan						1
Poland	2	2	2	6	4	2							

Webometrics Ranking

The Ranking Web is one of the first World Rankings to be published and currently it is the one with the largest coverage

- Published since 2004, two editions per year (January & July)
- The largest and most updated Directory with more than 20,000 Higher Education Institutions from all over the World
- The Ranking provides the Top 12,000 universities according to web indicators
- The hypothesis is that in the 21st century the web reflects the organization, activities, research results, knowledge transfer, prestige, and international visibility of the universities
- If the web performance is below the expected position could be due to lack of commitment to the electronic publication, or bad web practices



Geographical coverage



Cybermetrics

Universities in Latin America

Ranking Web of World Universities

SciVerse

Top 200 Latin American Universities								
RANKI	NG				POSITION			
LATIN AMERICAN	WORLD	UNIVERSITY	COUNTRY	SIZE V	ISIBILITY	RICH FILES	SCHOLAR	
1	51	Universidade de São Paulo	•	26	163	33	5	
2	66	Universidad Nacional Autónoma de México **		77	150	70	14	
3	161	Universidade Estadual de Campinas	•	77	333	78	96	
4	166	Universidade Federal do Rio Grande do Sul	O	230	391	128	4	
5	209	Universidade Federal do Rio de Janeiro	O	294	335	134	95	
6	238	Universidade Estadual Paulista Júlio de Mesquita Filho	•	341	432	195	25	
7	240	Universidade Federal de Santa Catarina	0	207	461	178	45	
8	292	Universidade Federal de Minas Gerais	O	326	442	235	141	
9	296	Universidad de Chile		170	485	213	215	
10	328	Universidade de Brasília	e	455	524	368	36	
11	361	Pontificia Universidade Católica do Rio de Janeiro	•	473	345	327	677	
12	389	Universidad de Buenos Aires		341	534	150	544	
13	400	Universidade Federal do Paraná	•	485	667	361	50	
14	426	Universidad Nacional de Colombia	-	381	747	761	9	

Affiliations	Documents
Universidade de Sao Paulo Universidade de São Paulo University of São Paulo	94816
Universidad Nacional Autónoma de México UNAM Universidad Nacional Autónoma de México	37755
Universidade Estadual de Campinas Universidade Estadual de Campinas UNICAMP	1 36703
Universidade Federal do Rio de Janeiro Universidade Federal do Rio de Janeiro Univ. Federal do Rio de Janeiro	1 31989
UNESP-Universidade Estadual Paulista Universidade Estadual Paulista UNESP	26682
Universidad de Buenos Aires Universidad de Buenos Aires University of Buenos Aires	1 26175
Universidade Federal do Rio Grande do Sul Universidade Federal do Rio Grande do Sul UFRGS	10135
Universidade Federal de Minas Gerais Universidade Federal de Minas Gerais Federal University of Minas Gerais	19886
Universidade Federal de Sao Paulo Universidade Federal de São Paulo Federal University of São Paulo	16985
Universidad de Chile Universidad de Chile University of Chile	16836

Web strategies

Web should be the showcase of the University, the place for publishing its basic info & facts, organisation, activities, policies, results ...

Contents

- First mission: Traditional and off campus (distance) teaching supporting pages
- Second mission: Research groups and (scientists) personal pages, Research projects websites
- Third mission: Hosting third parties sites

Quality Contents

- Portal of journals / Repository of papers
- \circ Media (videos, webinars, objects) and software portals
- Data repository / (Web) Archive
- **o Social commitments**

International Contents

- Multilingual (including English) versions
- Guides to foreign students/scholars
- Super-sites



Bandwidth?

External impact and quality of internal services are probably related to the capability of the servers and the bandwidth of the network



Learning management systems (LMS)



Diagnosis

Is ICT really adopted in the University? A very optimistic result from the Maryville University Technology Survey 2008:

• How do your professors use technology as a learning tool?

 Professors understand technology and it is fully integrated into my class 	34.4%
 Professors believe that technology can be a useful tool and they encourage students to use it 	50.3%
 Professors treat technology as optional for their classes 	13.6%
 Professors do not understand technology and do not use it 	1.8%
What is the biggest challenge to classroom technolo	gy?
 My professors don't know how to use it 	25.8%
– My professors won't use it	11.4%
 Our classrooms are not outfitted with technology 	14.8%
 Technology isn't useful to my course of study 	4.7%
 Technology is outdated 	6.1%
 Technology is fully integrated into my curriculum, there are no obstacles 	37.2%

MIT Open CourseWare



Communication

Personal Pages

View All Site Content	Dr. Gheith Abandah > All Site Content All Site Content		UNIVERSITY OF JORDAN الجامعة الأردنية Dr. Gheith Abandah
Academic Information	Name	Description	De Chaith Mandah , Mart Ma , Castad Ma , Office House
Research Interests	Document Libraries		Dr. Gheith Abandan About Me Contact Me Office Hours
Published Research	Documents	This system library was created by the Publishing feature to store docu	Faculty Members Websites > Dr. Gheith Abandah > Main Menu > Contact Me
 Published Books 	Images	This system library was created by the Publishing feature to store imag	Contact Me
Patency	Materials		
Academic Conferences These Dissectations	My Documents		E-mail Addresses: abandah@ju.edu.jo
Supervision	Pages	This system library was created by the Publishing feature to store page	
Award/Prizes/Orders	Shared Documents	Share a document with the team by adding it to this document library.	Work Address:
Funded Research/Project	Picture Librarian		
Taught Courses	Picture Libraries		Dr. Gheith Abandah
Ongoing Research	in his case is		Computer Engineering Department
Other Academic Activities	Lists		Faculty of Engineering & Technology
Main Menu	Academic Conferences		University of Jordan
ADOUT Me Contact Me	Announcements	Use the Announcements list to post messages on the home page of you	Amman 11942
Office Hours	Award/Prizes/Orders		Jordan
News	Calendar Calendar	Use the Calendar list to keep informed of upcoming meetings, deadlines	
Announcements	Funded Research/Project		Tel No: +962-6-535-5000 Ext. 23000
Calendar	Homeworks		Fax: +962-6-535-5588
Documents	Cinks	Use the Links list for links to Web pages that your team members will fin	
Useful Links	My Contacts		Personal Address:
 My Documents 	News		
 My Contacts 	Ongoing Research		Dr. Gheith Abandah
 My Gallery 	Other Academic Activities		P. O. Box 706
Courses	Patency		Amman 11953
 Materials 	Published Books		Jordan
 Homeworks 	🔁 Published Research		19 - 5 G895 8Q0
	Research Interests		8 16 months ago
	Tasks	Use the Tasks list to keep track of work that you or your team needs to	o complete. 0 16 months ago
	Taught Courses		1 13 months ago
	Theses, Dissertations Supervision		0 10 days ago
	🔤 Useful Links		0 16 months ago
	Workflow Tasks	This system library was created by the Publishing feature to store work	flow tasks that are created in this site. 0 16 months ago

Earl dty Mamhare Wahritae Dr. Chaith Ahandak

But ...



Research Projects





Welcome to the Kalahari Meerkat Project website

Welcome to the Kalahari Meerkat Project website.

Home •
Research & Publications +
Volunteer opportunities •
Earthwatch +
Filming opportunities •
Kuruman River Reserve 🕨
Zurich enclosure •
Meerkat information +
Links •
Gallery >
Deutsche Seite +
Friends of the KMP +
Team login >

The project is a longterm research project, contributing to our understanding of the evolution of cooperative behaviour. Details of our research, publications, study site, volunteering opportunities and other information can be found here.

Please use the links to the left and right of this page to navigate through the site.

Zur deutschsprachigen Webseite klicken Sie bitte hier.

Friends of the Kalahari Meerkat Project

Interested in learning everything you ever wanted to know about your favourite meerkat groups? You now have the chance to support the KMP research - become a Friend of the Kalahari Meerkat Project!

For more information please click here.

Last update: 12:12 19/07 2009



kalahari-meerkats.com

Páginas (2,453) Enlaces entrantes (228)



Portal OA of USP



19

Thesis at USP



Web 2.0

Marketing

Facebook, YouTube, MySpace, LinkedIn, Delicious, Flickr

Communications & Public Relations

Twitter, RSS Feeds, Facebook, Wikipedia

Alumni Relations

• Facebook, LinkedIn, Twitter

Athletics

○ Blogs, YouTube, Facebook, Twitter

Admissions

- Chat University, Blogs, Facebook
- Technology Services
 - Facebook, Twitter



Rank	Facebook	YouTube	Social Bookmarking	External Blogs	Institutional Blogs
1	Campus Life	Events	Courses	Courses Faculty	
2	Sports	Campus Life	Projects, Non- Research	Research, Physical Sciences	Events
3	Technology	Faculty	Research, Physical Sciences	Institution Overall	Institution Overall
4	Product Services	Courses	Events	Expert Commentary	Institution Sub- Groups
5	Events	Institution Overall	Faculty	Events	Admissions

A lot of options, a lot of opportunities



Summarizing

Rankings, the ranking Web and a few advices, if you are interested

World Rankings

- A rose is a rose: Very useful for specific aims and audiences, they can complement other sources and open the door to further deeper analysis
- Overall criticism is a nonsense, but non-academic approaches, mistakes, and unjustified biases should be pointed out

Ranking Web

- Web is more important that many scholars are ready to recognise
- Web ranking is reflecting the performance and the impact of the universities
- $\circ\,$ Most of the "discrepancies" are explained because of the lack of web polices or bad web practices

Content is the king

- \circ Be active, be productive
- **o Be excellent**
- \circ Be in the Web, in the public open Web
- \circ Be international



Open Forum

Isidro F. Aguillo, HcPhD The Cybermetrics Lab. IPP-CCHS-CSIC *isidro.aguillo@cchs.csic.es*



^{© 2003} United Feature Syndicate, Inc.

Questions? ... Thank you!

