
Some issues on Bibliometrics

*the way I would like to be helped as a
University Professor*

Luis Borges Gouveia, Imbg@ufp.edu.pt

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University Fernando Pessoa

Talk abstract:

Some issues on Bibliometrics...

The availability of digital based information services and the growing number of Web based tools provide new ways to deal with quantitative analysis and statistics to describe publication patterns, authors or journals impact and its influence and weight for R&D (or as placed now R&I) evaluation and even funding.

In a changing world of higher education where research and scientific production is getting more and more a global comparison bias, university staff support to harness their efforts and maximize results is more strategic. The presentation provides a personal report on the context, the challenges and current common restrictions felt when dealing with such issues.

Additionally, a number of ongoing activities and Internet tools are presented as the rise of Altmetrics and the use of Internet based tools for reputations and cross reference management, including individual research identifiers as ORCID.

One initial word...

- *This work is a personal statement regarding the good and the not so good about bibliometrics*
- *It provides a view for sharing information and serve as a starting point to improve and provide support to direct and maximize ongoing efforts to produce more impact and assess achieved influence*
- *Still, it is working in progress, started 18 years ago...*



Presentation content

User digimetrics

Current challenges

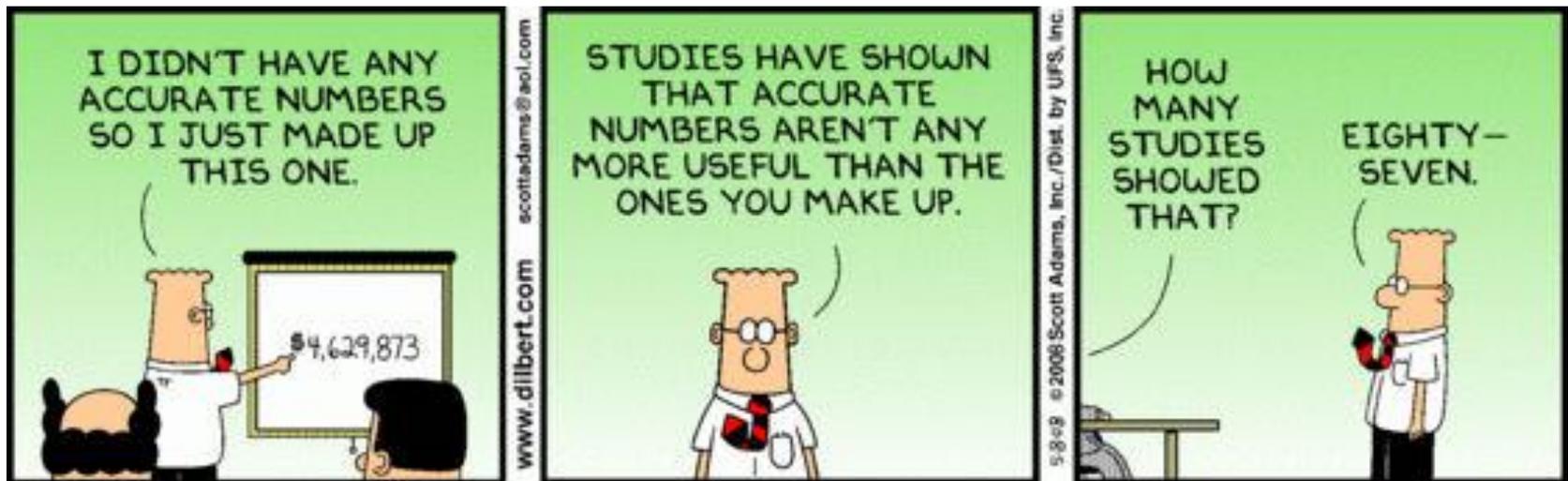
From bibliometrics to altmetrics

A Word on

Bibliometrics

Some critics

- Quantity different from quality
- Almost impossible to provide an all inclusive account (*is there a place where we can collect/include all the work?*)

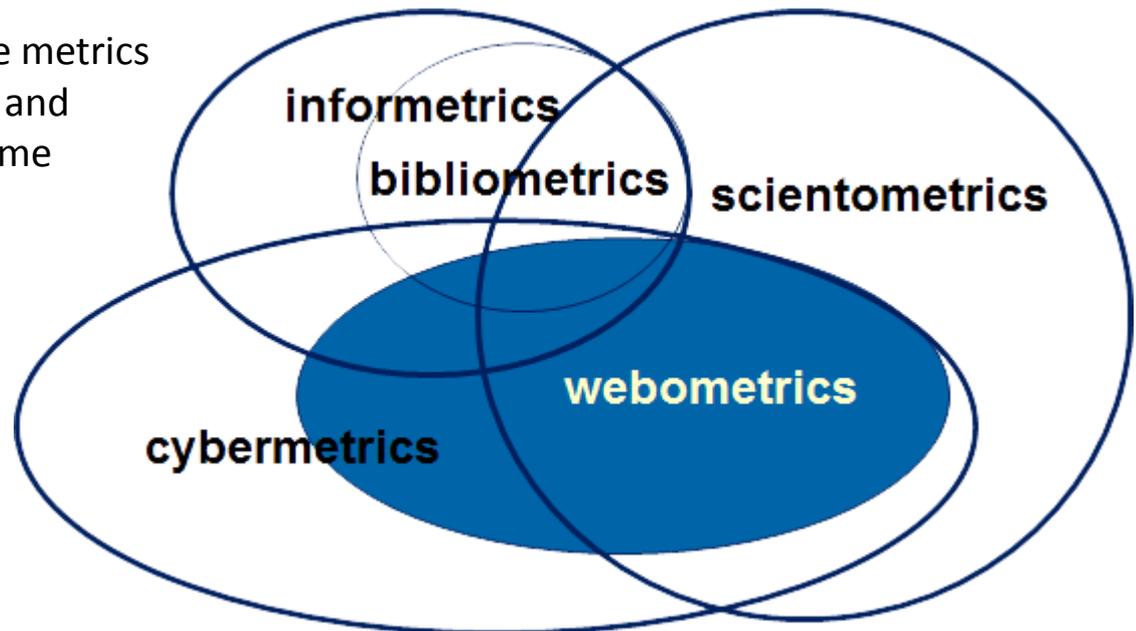


“Bibliometrix” (a dark secret art?)



“Bibliometrix”

- **Bibliometrics** – is the quantitative analysis of documents in scientific communication; the documents reflect the state of scientific knowledge.
- **Cybermetrics** – is the quantitative research of information sources, structures and technologies on the Internet; a study of discussion groups, email communication, etc.
- **Informetrics** – is focused on the information stream in networks and demonstrates on the basis of mathematical and statistical methods a variety of relations between them.
- **Scientometrics** – is focused on the evaluation of efficiency of scientific-research or individual researchers by citation counts.
- **Altmetrics** – refer to alternative metrics that combine both informetrics and bibliometrics and strive to become a substitute of Bibliometrics



Bibliometrics

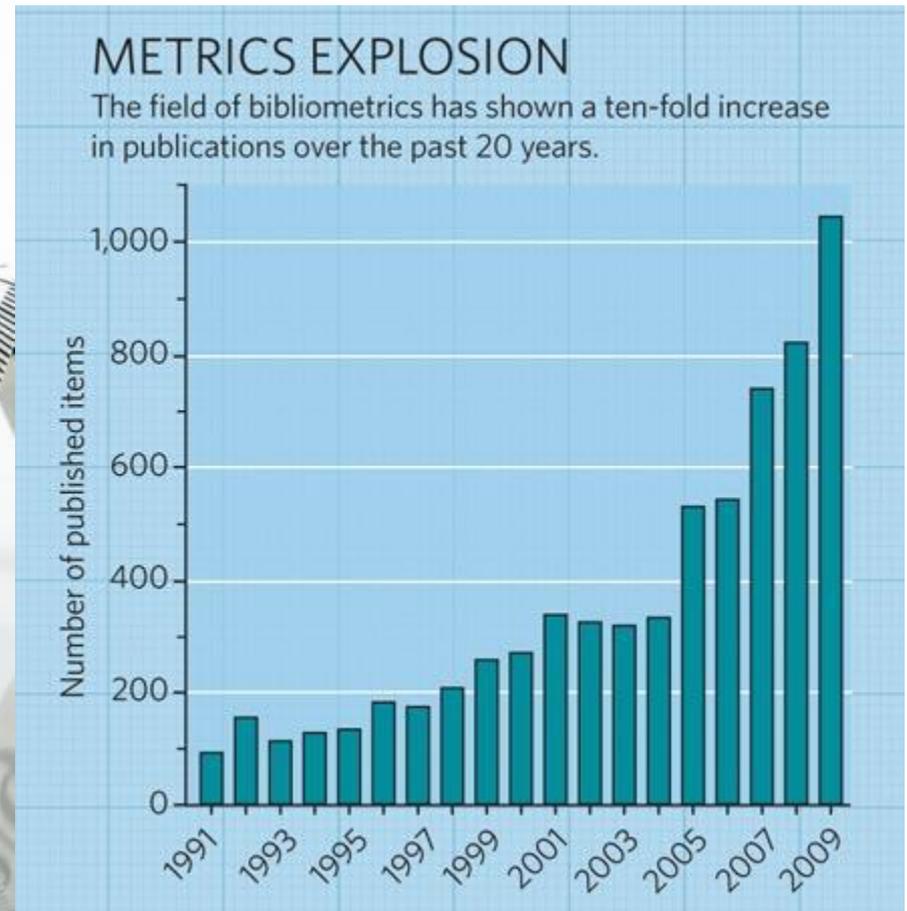
- Bibliometrics is a research method used in library and information science
 - uses quantitative analysis and statistics to describe patterns of publication
- Bibliometrics as a means of evaluation:
 - to determine the influence of a researcher
 - the relationship between two or more researchers or works
 - a R&D group / lab / university / nation / area
 - a given journal / conference / scientific event
- A nice tutorial (*MyRI, Measuring your Research Impact*):
http://www.ndlr.ie/myri/MyRI_Tutorial/player.html

Old times: from counting to digital

- The era of quantitative, computer-tabulated science metrics dates back to the 1950s, when linguist Eugene Garfield began indexing the scientific literature using punch cards
 - A company in Philadelphia, Pennsylvania, that Garfield founded in 1955
 - Renamed Institute for Scientific Information (ISI) in 1960, when it began to publish the Science Citation Index: a systematic effort to track citations — the footnotes by which journal authors acknowledge their intellectual debts. (ISI is now owned by Thomson Reuters)
- In 1965, Garfield and his colleagues used ISI's databases to show that Nobel laureates published five times the average number of papers, and that their work was cited 30 to 50 times the average
 - A finding that for decades established citations as the pre-eminent quantitative measure of a scientist's influence
 - Introduces the number of publications and the number of citations as quality work quantifiers

To much, to many...

Bibliometrics grows in importance and assessment use



When use tools to measure

- What to measure
- Metrics to be used
- Benchmarking context
- Comparing what or whom
- Measure for improving
- To assess a policy
- To meet a strategy
- For fun...
- As an excuse...
- Because the others do...
- As a requirement, mainly for funding

When use tools to measure

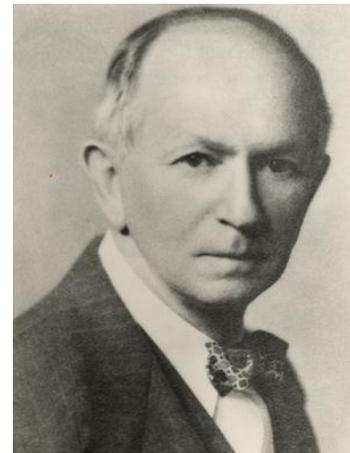
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**Help wanted here, from librarians,
all we can get!**

Laws of Bibliometrics – Lotka's Law

- Lotka's Law describes the frequency of publication by authors in a given field. It states that "*... the number (of authors) making n contributions is about $1/n^2$ of those making one; and the proportion of all contributors, that make a single contribution, is about 60 percent*".
- This means that out of all the authors in a given field:
 - 60% will have just one publication
 - 15% will have two publications ($1/2^2$ times .60)
 - 7% will have three publications ($1/3^2$ times .60), and so on.
- According to Lotka's Law of scientific productivity, only six percent of the authors in a field will produce more than 10 articles.
- Lotka's Law, when applied to large bodies of literature over a fairly long period of time, can be accurate in general, but not statistically exact.
- It is often used to estimate the frequency with which authors will appear in a catalog

Alfred J. Lotka (1880, 1949)



Laws of Bibliometrics – Bradford's Law

- Bradford's Law serves as a general guideline to librarians in determining the number of core journals in any given field.
- States that journals in a single field can be divided into three parts, each containing the same number of articles:
 1. The core of journals on the subject, relatively few in number, that produces approximately one-third of all the articles;
 2. A second zone, containing the same number of articles as the first, but a greater number of journals;
 3. A third zone, containing the same number of articles as the second, but a still greater number of journals.
- The mathematical relationship of the number of journals in the core to the first zone is a constant n and to the second zone the relationship is n^2
- Bradford expressed this relationship as $1:n:n^2$.
- Bradford's Law is not statistically accurate, but it is used as a general rule of thumb

Samuel Clement Bradford (1878 — 1948)



Laws of Bibliometrics – Zipf's Law

- Zipf's Law is often used to predict the frequency of words within a text. It states that in a relatively lengthy text, *“if you list the words occurring within that text in order of decreasing frequency, the rank of a word on that list multiplied by its frequency will equal a constant”* . The equation for this relationship is: $R \times F = C$ where R is the rank of the word, F is the frequency, and K is the constant
- Use not only in language context, but in many other collections of data as the case of Internet or even the distribution of income within nations (for example, the rank versus distribution of individual incomes in a country approximates this law. Breaks in this normal distribution create pressure for change, even revolution)
- Zipf's Law, again, is not statistically perfect, but it is very useful for indexers

George Kingsley Zipf (1902-1950)

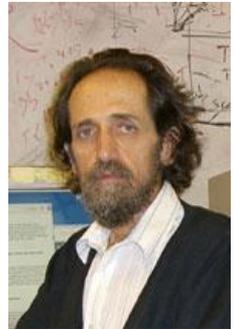


First: count work (not all equal)

- Journals
 - International journals
 - Local journals
- Published books
 - International editors
 - National or even a lower level of local editors (excluding or adding self publication)
- Book chapters
 - International editors
 - National or even a lower level of local editors (excluding or adding self publication)
- Conferences
 - International
 - National
- Other work
 - Prizes and honors
 - Patents
 - Projects
- Academic work
 - Thesis and dissertations and other public or documental formal referred documents
 - Internal reports as of a clear selection overflow
- Observations:
 - All can be distinguished by (being indexed on major databases and ranked by impact factor and/or A, B, C rankings)
 - All works must be refereed by peers and recognized as genuine academic work
 - Other media and new media work can be listed but not count as the case for talks, keynotes, media , interviews, Web materials and contents, videos and audio content, multimedia and even transmedia. Creative work, art and collective work, verssioning, trademarks, brands, software

Second: Measuring influence (not the same of work...)

- ***Number of citations***
 - The sum of all the citations from the authors papers
 - We can differentiate self citations from others, first authors and the order position in authorship
- ***H-index***
 - The h-index measures the broad impact of a researcher's work
 - a scholar with an index of h has published h papers each of which has been cited in other papers at least h times
 - Created in 2005 by Jorge E. Hirsch
- ***G-index***
 - The g-index is similar to h-index, but takes into account highly cited papers
 - a g-index of n show that an author produces n articles who have, on average, n citations for each of them
 - Created in 2006 by Leo Egghe



Third: Why can this be important

- *A professor asks*
 - *Who is citing my articles?*
 - *How many times have I been cited? Where and from whom?*
 - *What are my h-index and g-index?*
- *A student asks*
 - *How do I know if this article is important?*
- *Another professor asks*
 - *Which journal should I publish in for more impact?*
 - *What are the best journals to publish my research?*
- *A different student*
 - *What are the best journals in my studying field?*
- *Many other questions possible from other parts than professors and students (university staff, services and boards, management, external assessment boards, etc.)*

Sources and Tools for bibliometric data

- **Sources**

- ISI Web of Knowledge: <http://wokinfo.com/>
- Scopus: <http://www.elsevier.com/online-tools/scopus>
- Google Scholar: <http://scholar.google.com>

- **Tools**

- Harzing's **Publish or Perish**: <http://www.harzing.com>
- Loet Leydesdorff collection:
<http://www.leydesdorff.net/software.htm>
- BibExcel: <http://www8.umu.se/inforsk/Bibexcel/>
- Pajek: <http://pajek.imfm.si/doku.php>
- CiteSpace: <http://cluster.cis.drexel.edu/~cchen/citespace/>
- Sitkis: <http://users.tkk.fi/~hschildt/sitkis/index.html>
- R (stats and graphs language): <http://www.r-project.org/>

As so...

- First: count work (not all equal)
- Second: Measuring influence
- Third: Why can this be important
- Sources and Tools for bibliometric data
- **Explore, experiment, seek help...**

As so...

- First: count work (not all equal)
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**Help wanted here, from librarians,
all we can get!**

A Word on being

Professor

Be a University Professor

- Think of it as the need to use different hats
 - One for each main role
 - One that requires alternative skills
 - One that uses proper balance to deal with time and other people
 - They are somewhat overlapping but essential they compete for effort, resources, will and time of each one of us
 - Need to respond to all of them to be complete

Not the same
of 6 thinking
(Edward De Bono)
hats...

but somewhat
inspired in
:-)

6 thinking HATS

THINK THINKING HAT
What thinking is needed?
What have we done so far?
What do we do next?

WOW FEELINGS HAT
What do I feel about this?
EMOTIONS
INTUITION
HUNCHES

NEW CREATIVE HAT
What new ideas are possible?
What are some possible ways to work this out?
SUGGESTIONS
DIFFERENT IDEAS
PROPOSALS

FACTS INFORMATION HAT
What are the facts?
What information do we have?
What information do we need to get?
QUESTIONS

YES BENEFITS HAT
What are the good points?
Why is this worth doing?
How will it help us?
GOOD POINTS

NO JUDGEMENT HAT
What is wrong with this?
Will this work?
What are the weaknesses?
BAD POINTS
ASSESSMENT
CAUTION

Six Thinking Hats® Edward de Bono

No magic... just a working perspective



*Helps organizing activity and for **information management***

The process

- It take some time (possible to jump some)
 - Starts with a PhD
 - Can goes to a Post doc
 - A Research Assistant (RA) position
 - Lecturer...
 - Then tenure...
 - Become Assistant Professor, Associate Professor
 - Full Professor, and stay there
- Causion: is this still a valid/viable path?

A path that relates degrees and pubs



1989

1995

2002

2010

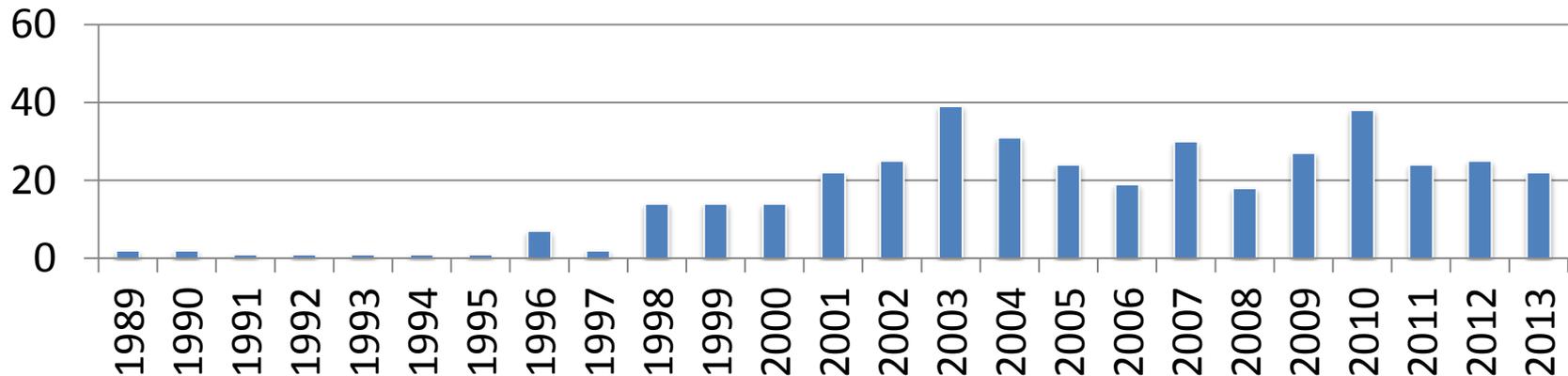
UFP position

Dip

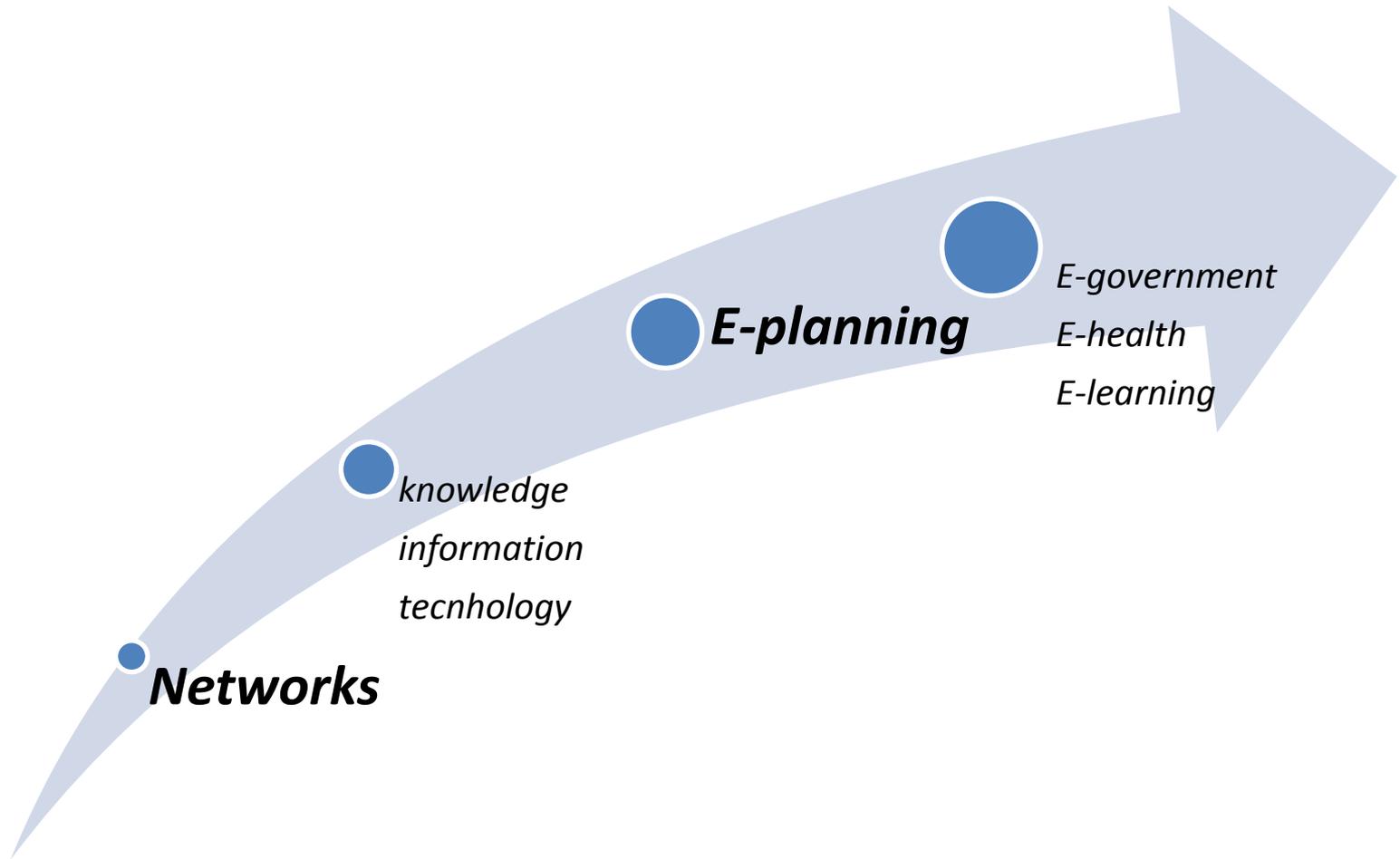
MSc

PhD

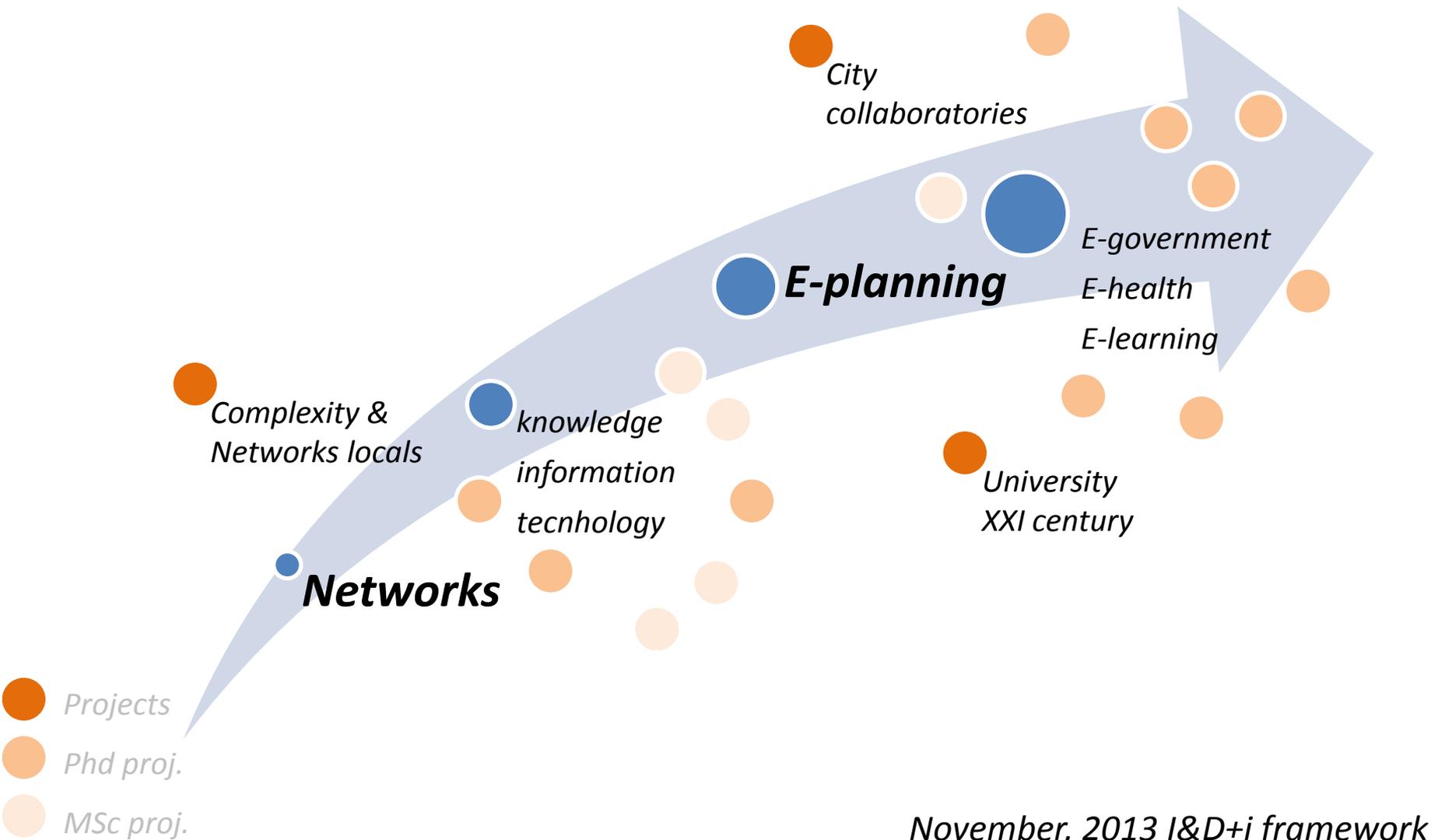
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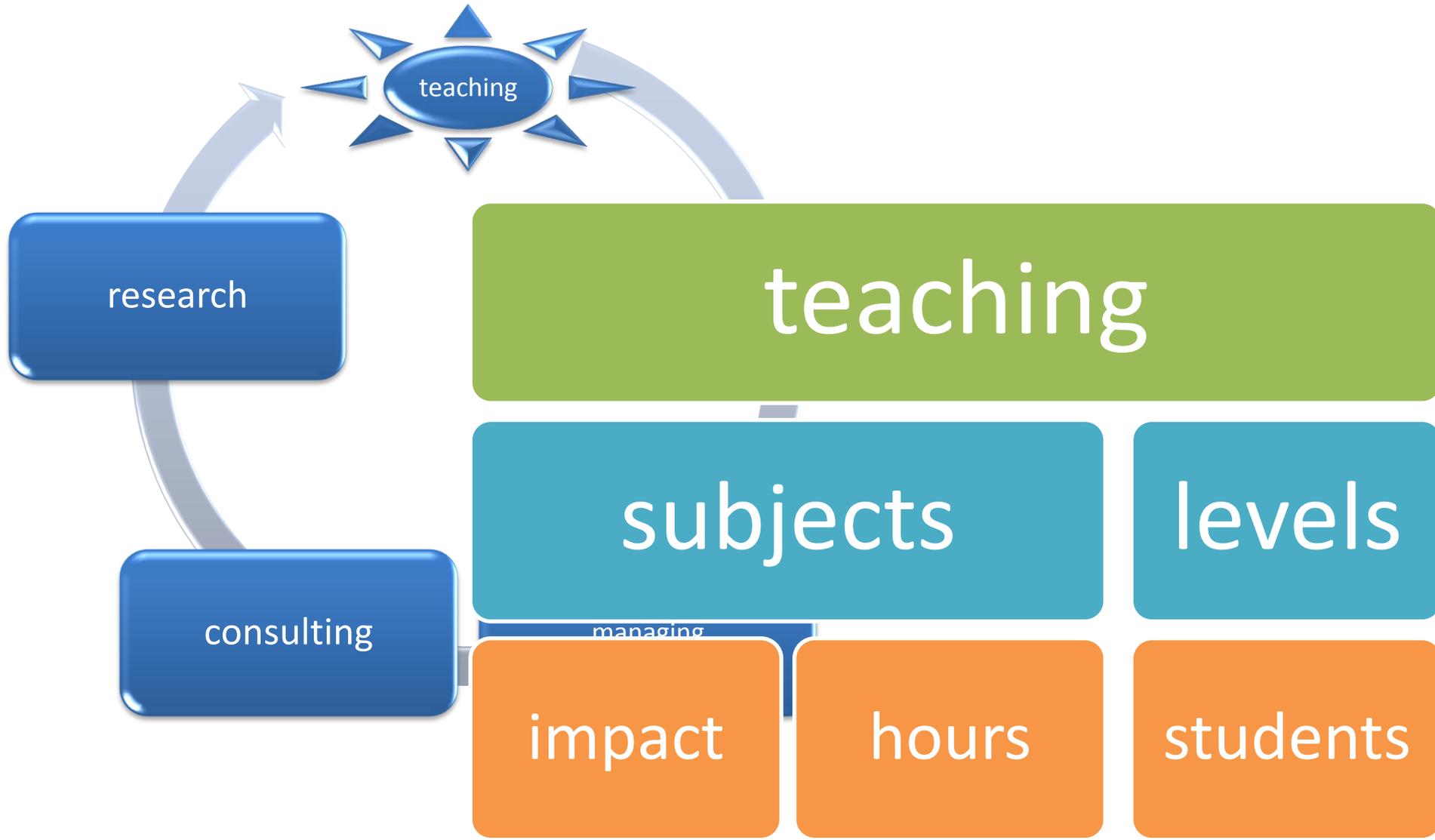
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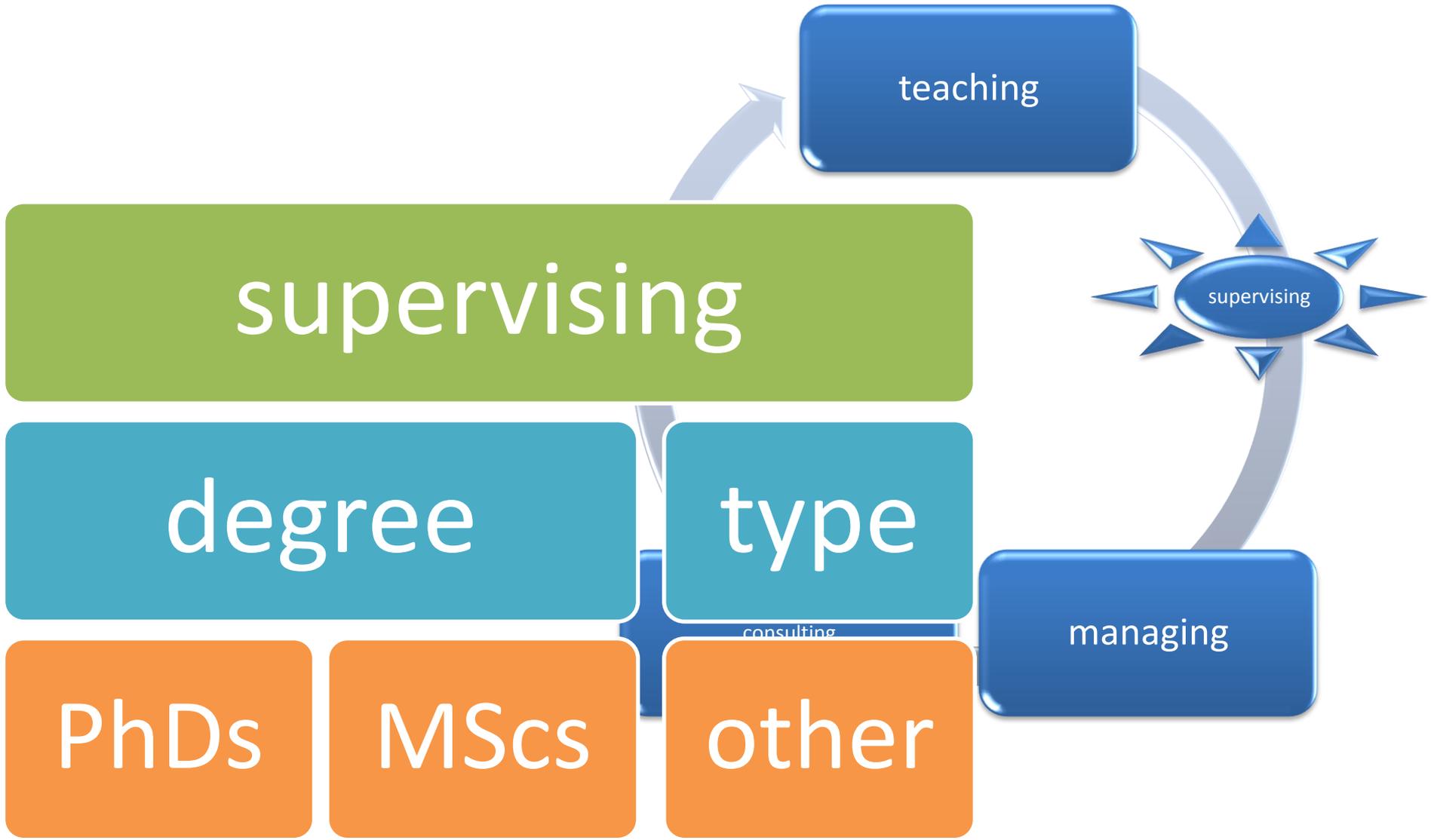
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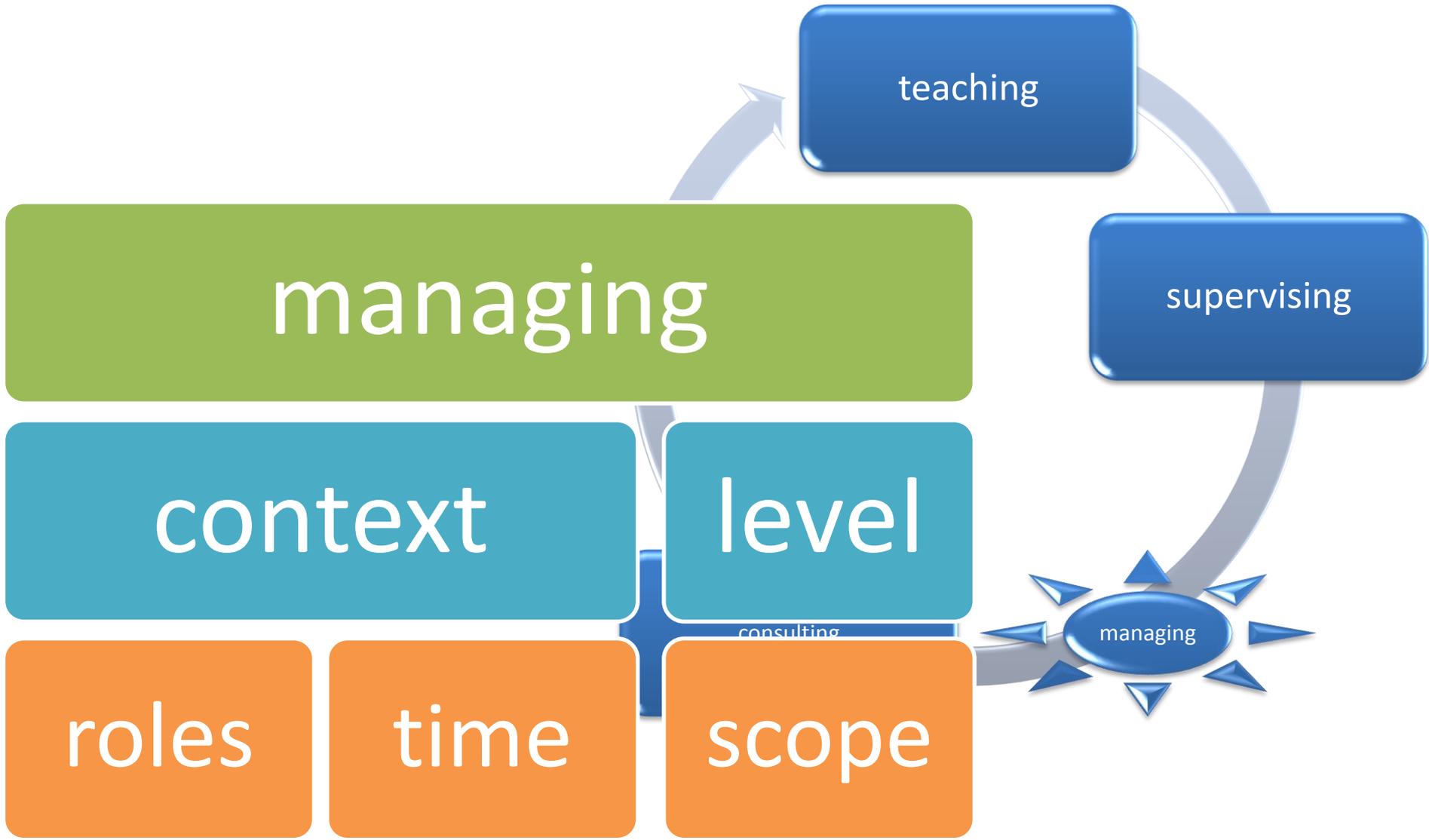
Five hats for university Professor



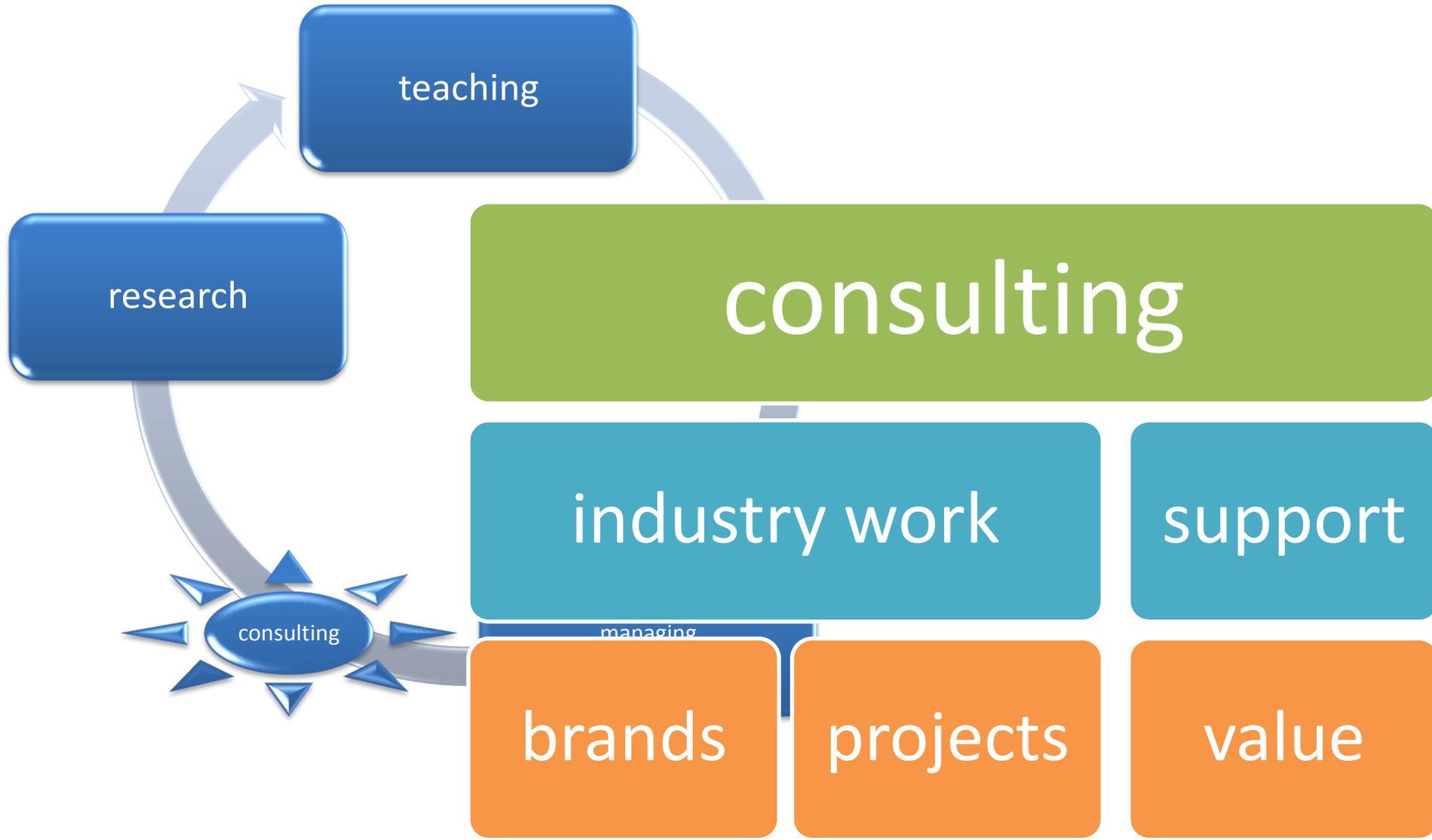
Five hats for university Professor



Five hats for university Professor



Five hats for university Professor



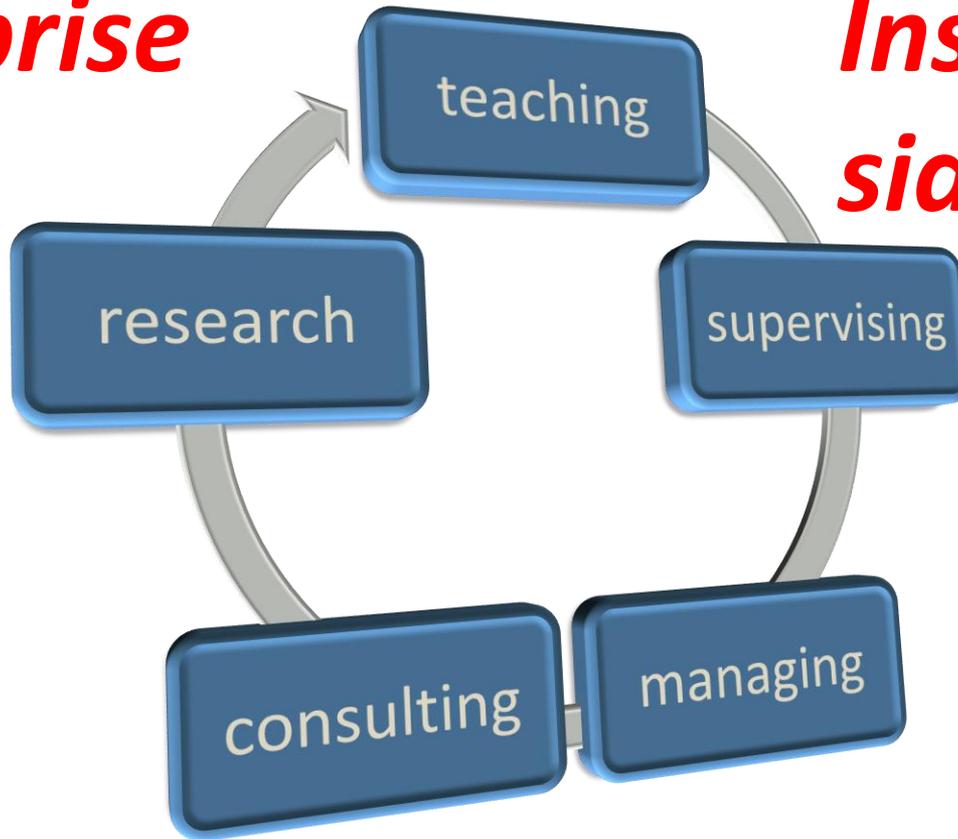
Five hats for university Professor



Five hats for university Professor

*Enterprise
side*

*Institucional
side*



- ***Which hat fits you?***
- ***Which side is yours?***

...hope these are the wrong questions!

[my position]

To be a Professor it is needed to be the full circle, although that some balance is not to ask ideal perfection (or, for that matter, the impossible)

A Word on HEI

Challenges

Current context (I)

- Higher education are on change
 - its global and a non return issue
- In the Portuguese case, it was introduced a minimal member rule for R&D units:
 - Phd until 2009: 4 journal or book publications
 - Phd after 2009: 2 publications (being one, the thesis)
- Why five years?
 - Absolence knowledge rate: 20%
 - Within a five years timeframe, knowledge need to be renewed...

Current context (II)

year	1	2	3	4	5
2013	2009 Phd A, 2 pubs	2010	2011 Phd B, 2 pubs	2012	2013
2014	2010 A, 4 pubs!	2011 Phd B, 2 pubs	2012	2013	2014
2015	2011 Phd B, 2 pubs	2012	2013	2014	2015
2016	2012 B, 4 pubs!	2013	2014	2015	2016
2017	2013	2014	2015	2016	2017

Current context (II)

Publishing

- Internal reports
- Conferences
- Book chapters
- **Journals**
- **Books**

Citations

- Listed
 - **Scopus, ISI**
 - DOAJ, ACM, IEEE, other...
- Cited
 - **ISI, Scopus**
 - Google Scholar

Funding

- Grants
- Publication support
- Consulting
- Projects

Challenges (within HEI context)

- More global
- More competitive
- A market for students not for university staff
- Real time & easy to compare and monitor
- Digital offerings
 - No cost
 - Open access
 - High quality
 - Sofisticated
 - Fast pace, growing alternative to choose from

Things are changed a lot in HEI



HEI – Higher Education Institutions
new highlights to consider...

OPEN **EXPERIENCE** **POPULATED**
GLOBAL **DIVERSE** **SHARE**
INTERACTIVE **VALUE** **EMOTIONAL**
FLEXIBLE **DIGITAL**
IMPACTANT **INNOVATIVE**
CONNECTED **FASHION**
NETWORKED

A Word on

Web time

Old and New (bibliometrics) gamers

- Research ID (Thomson Reuters)
- Scopus Author ID (Elsevier)
- Google citations (Google)
- Research Gate

- Information services
 - Information collectors (e.g. DEGOIS)
 - Information aggregators (e.g. ORCID)



ISI Research ID

<http://www.researcherid.com/rid/E-9682-2010>

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Subject: Computer Science **Role:** Faculty

Keywords: e-learning; e-government

ORCID: <http://orcid.org/0000-0002-2079-3234>

Description: Associate Professor Aggregation on Eng & Industrial Management, University of Aveiro Phd in Computer Science, University of Lancaster MSc in Computer Engineering, University of Porto Dip in Informatics, University Portucalense

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Author(s): Abrantes, Steven Lopes; Gouveia, Luis Borges
Source: Concepts, Methodologies, Tools, and Applications Pages: 840-852 Published: 2013
DOI: 10.4018/978-1-4666-4502-8.ch049 [📄](#)
- Title:** A proposal for digital mediation for direct public participation during electoral periods added 26-Oct-13
Author(s): Afonso de Sousa, Artur Jorge; Borges Gouveia, Luis Manuel; Rocha, A; et al.
Source: Information Systems and Technologies Published: 2012
Times Cited: 0
- Title:** A worked proposal on eparticipation for state wide elections added 28-Nov-13
Author(s): Sousa, A.A.; Agante, P.; Gouveia, L.B.
Source: Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) Volume: 7452 LNCS Pages: 178-190 Published: 2012
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University of Aveiro
- Feliz Ribeiro Gouveia**
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Universidade Fernando Pessoa

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Aggr, PhD, MSc Eng., Dip, BSc
Associate Professor
Universidade Fernando Pessoa - Departamento de Eng...

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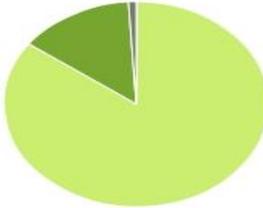
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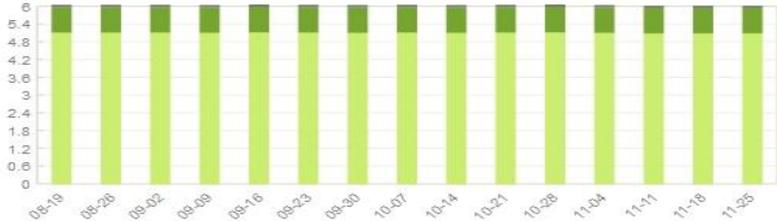
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LUIS BORGES GOUVEIA

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 Publication views	3k	43	See views by country / institution
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Chave Pública

4336687962859213

Para efeitos do estudo bibliométrico indicou o ORCID iD:

0000-0002-2079-3234

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Curriculum Vitae

Luis Manuel Borges Gouveia

Co-Autores Relacionados no DeGóis (13)
Co-authors listed in Degóis

Data da última actualização »Last update : 03/12/2013



Luis Manuel Borges Gouveia. Concluiu a Agregação - em 2010. É Professor Associado com Agregação na Universidade Fernando Pessoa. Publicou 49 artigos em revistas especializadas e 122 trabalhos em actas de eventos, possui 33 capítulos de livros e 13 livros publicados. Possui 2 softwares e outros 215 itens de produção técnica. Participou em 57 eventos no estrangeiro e 41 em Portugal. Orientou 5 teses de doutoramento e co-orientou 2, orientou 15 dissertações de mestrado e co-orientou 1, além de ter orientado 11 trabalhos de conclusão de curso de bach./licenciatura e 7 monografias de conclusão de curso de aperfeiçoamento/especialização nas áreas de Engenharia Electrotécnica, Electrónica e Informática, Ciências Exactas e Economia e Gestão. Recebeu 3 prémios e/ou homenagens. Entre 2001 e 2009 coordenou 1 projecto de investigação. Actua nas áreas de Engenharia e Tecnologia com ênfase em Engenharia Electrotécnica, Electrónica e Informática e Ciências Exactas com ênfase em Ciências da Computação e da Informação. Nas suas actividades profissionais interagiu com 97 colaboradores em co-autorias de trabalhos científicos. No seu curriculum DeGóis os termos mais frequentes na contextualização da produção científica, tecnológica e artístico-cultural são: sociedade da informação, Gestão da Informação, Informação, e-learning, Sistemas de Informação, e-government, Multimédia, ensino superior, Engenharia Informática e negócio electrónico.

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Dados pessoais (Personal data)

Nome completo Full name	Luis Manuel Borges Gouveia
Nome em citações bibliográficas Quoting name	Gouveia, Luis Borges
Categoria profissional Position	Professor Associado com Agregação
Domínio científico de actuação Scientific domain	Engenharia e Tecnologia-Engenharia Electrotécnica, Electrónica e Informática. Ciências Exactas-Ciências da Computação e da Informação.
Endereço profissional Professional address	Universidade Fernando Pessoa Faculdade de Ciência e Tecnologia Centro de Recursos e Estudos Multimediáticos Praça 9 de Abril, 349 Ramalde 4249-004 Porto Portugal Telefone: (+351)225071306 Fax: (+351)225508269 Correio electrónico: Imbg@ufp.edu.pt Homepage: http://homepage.ufp.pt/~lmbg

ORCID

<http://orcid.org/0000-0002-2079-3234>

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Luis Borges Gouveia

<http://orcid.org/0000-0002-2079-3234>

Keywords: e-government, e-learning

Websites:
[About me page](#)
[Homepage](#)

Other IDs:
ResearcherID: E-9682-2010
Scopus Author ID: 7004135841

Personal Information

Biography

Aggregate in Engineering and Industrial Management (University of Aveiro, 2010)
PhD in Computer Science (University of Lancaster, 2002)
MSc in Electronic and Computer Engineering (University of Porto, 1995)
Dip in Informatics (University Portucalense, 1989)

Publications

Using Games for Primary School: Concepts, Methodologies, Tools, and Applications 2013 

A proposal for digital mediation for direct public participation during electoral periods: Iberian Conference on Information Systems and Technologies, CISTI 2012 

A worked proposal on eparticipation for state wide elections: Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) 2012 

iLeger: A digital mediation proposal for election periods | lIeger: Uma proposta de mediação digital para períodos eleitorais: RISTI - Revista Iberica de Sistemas e Tecnologias de Informacao 2012 

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 - Fast, no cost, availability, but depends on user knowledge
 - ...also starts to be explored for open access (see <http://www.slideshare.net/lmbq/the-library-the-digital-and-the-quest>)



Luis Borges Gouveia

Associate Professor

Professor Associado com Agregação

Science and Technology Faculty

Faculdade de Ciência e Tecnologia

University Fernando Pessoa (UFP)

Universidade Fernando Pessoa

About me

Klout



publications (date & type)

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published books

livros publicados

online materials

textos disponibilizados

work on thesis, dissertations and monographs

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email lmbg@ufp.edu.pt
skype [luis.borges.gouveia](https://www.skype.com/en/contacts/skype/luis.borges.gouveia)

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Luis Borges Gouveia

Associate Professor

Professor Associado com Agregação

Science and Technology Faculty

Faculdade de Ciência e Tecnologia

University Fernando Pessoa (UFP)

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About me

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email mbg@ufp.edu.pt
skype [luis.borges.gouveia](https://www.skype.com/profile/luis.borges.gouveia)



Social Web

includes a growing number of networked based platforms to promote, connect and share information

Still some use for old fashion Web pages



Luis Borges Gouveia

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Associate Professor (with Aggregation)
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Aplicação das TICs no Instituto Superior de Ciências de Educação: uma nova metodologia para o currículo de Informática

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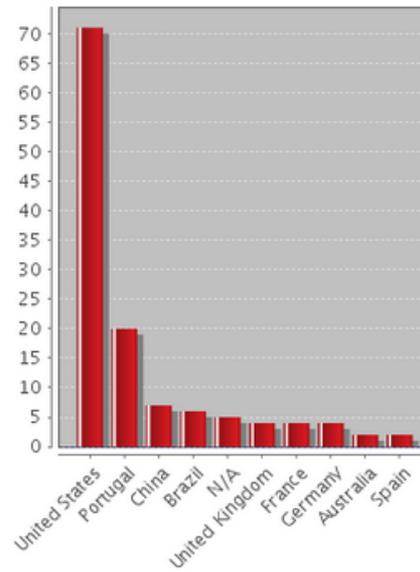


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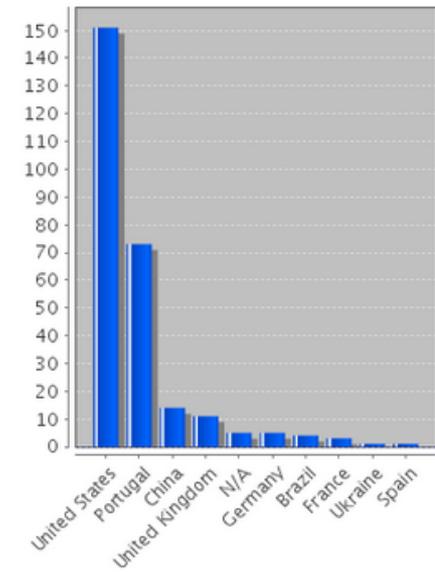


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Consultas por país (top 10)



Downloads por país

Origen	Downloads	Perc.(%)
United States	71.0	51.45
Portugal	20.0	14.49
China	7.0	5.07
Brazil	6.0	4.35
? N/A	5.0	3.62
Germany	4.0	2.90
United Kingdom	4.0	2.90
France	4.0	2.90
Spain	2.0	1.45
Australia	2.0	1.45
Poland	2.0	1.45
Moldova, Republic of	1.0	0.72
Mexico	1.0	0.72
Ukraine	1.0	0.72
Israel	1.0	0.72
Turkey	1.0	0.72
Czech Republic	1.0	0.72
Russian Federation	1.0	0.72
Estonia	1.0	0.72
Italy	1.0	0.72
Romania	1.0	0.72
Serbia	1.0	0.72
Total	138.0	100.00

Consultas por país

Origen	Consultas	Perc.(%)
United States	151	55.31
Portugal	73	26.74
China	14	5.13
United Kingdom	11	4.03
? N/A	5	1.83
Germany	5	1.83
Brazil	4	1.47
France	3	1.10
Ukraine	1	0.37
Spain	1	0.37
Turkey	1	0.37
Russian Federation	1	0.37
Italy	1	0.37
Netherlands	1	0.37
Slovenia	1	0.37
Total	273	100.00

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<http://qualis.capes.gov.br/webqualis/principal.seam>
- Journal finder (Elsevier):
<http://journalfinder.elsevier.com/>
- CiteFactor Directory Indexing of International Research Journals <http://www.citefactor.org/>
- Journals for free: <http://www.journals4free.com>

Assorted resources

- Portuguese access portal to scientific data, b-on: <http://www.b-on.pt/>
- Portuguese open access search engine, RCAAP: <http://www.rcaap.pt/>
- I&D search engine: <http://worldwidescience.org/>
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- *ISI Web of Knowledge*: <http://wokinfo.com/>
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Presentation conducted by

- Luis Borges Gouveia is an *Associate Professor* of Knowledge Management, Science and Technology Faculty at *University Fernando Pessoa*
- Among his research interests are *the impact of digital information and information society issues in our day-to-day life*.
- He publishes 12 books and is involved in several projects concerning the use of information in e-learning and e-government settings
 - More information is available at <http://about.me/lbgouveia>

