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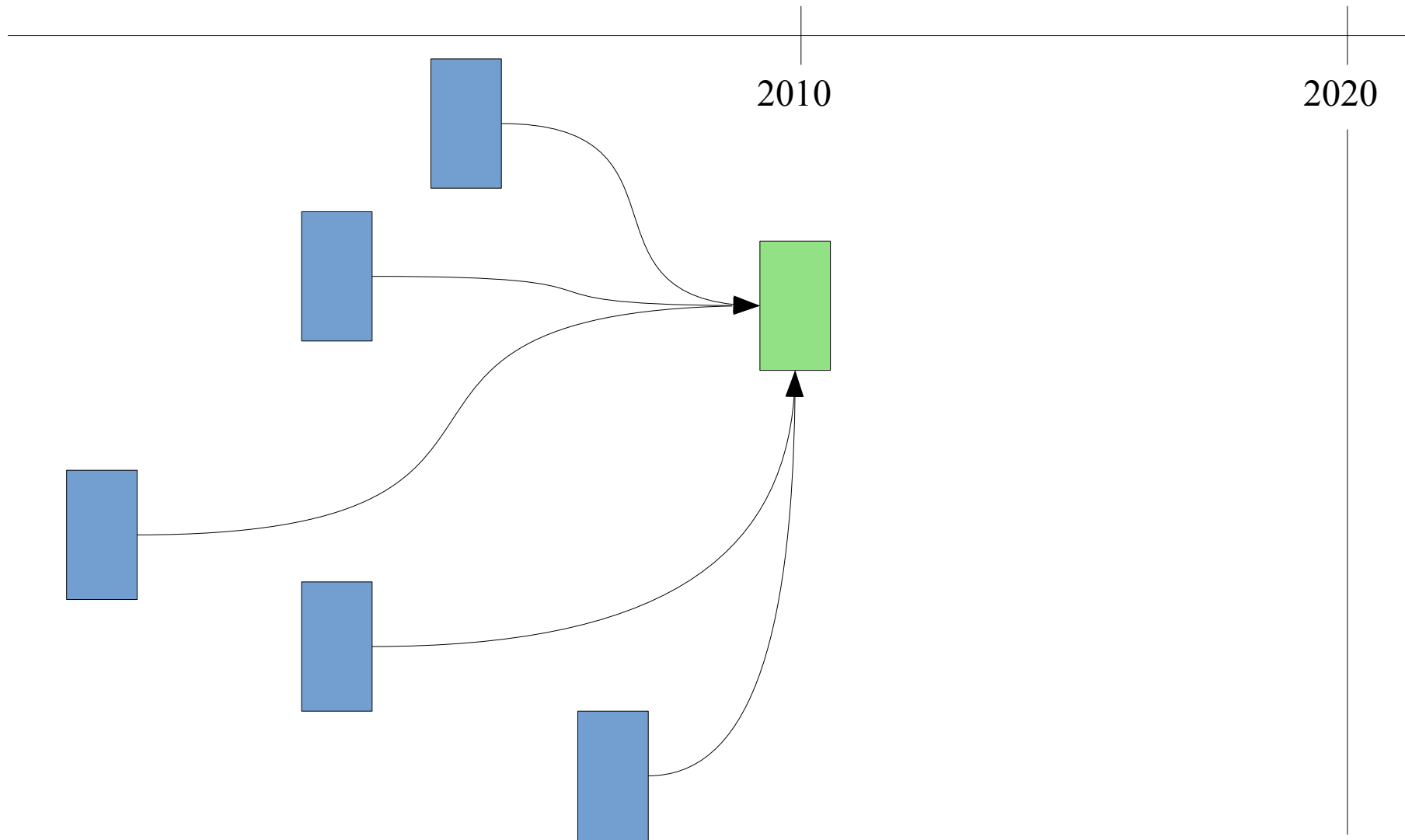
Metodologia de Pesquisa em Ciência da Computação

Preparação de um trabalho de pesquisa: - Revisão bibliográfica

Prof. Jesús P. Mena-Chalco
jesus.mena@ufabc.edu.br

QS-2020

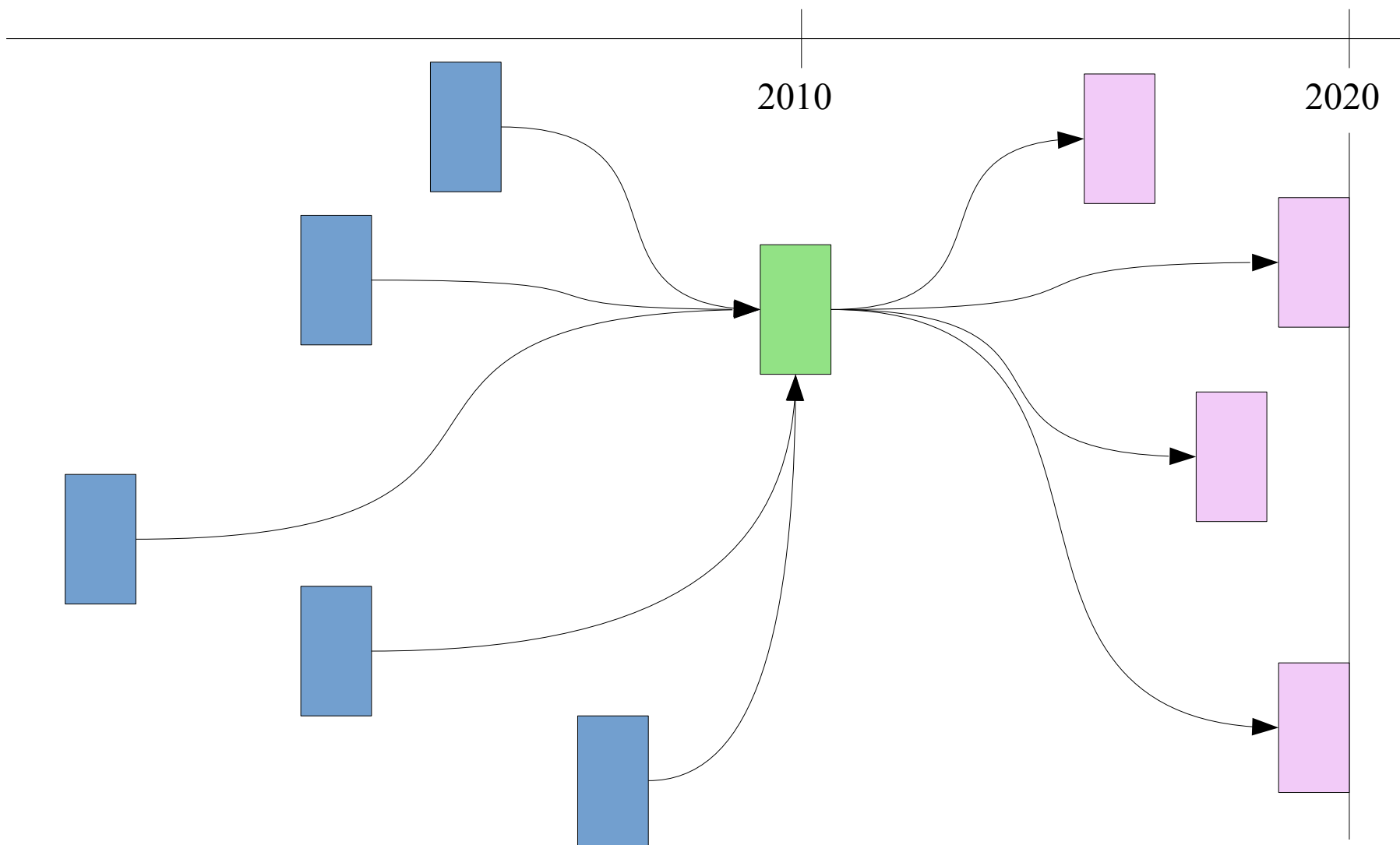
Sobre revisão bibliográfica



Sobre revisão bibliográfica

Encadeamento para trás

Encadeamento à frente



Sobre revisão bibliográfica

Google Scholar

deep learning



Articles

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[BOOK] Deep learning

[I Goodfellow, Y Bengio, A Courville, Y Bengio - 2016 - synapse.koreamed.org](#)

Kwang Gi Kim <https://doi.org/10.4258/hir.2016.22.4.351> ing those who are beginning their careers in deep learning and artificial intelligence research. The other target audience consists of software engineers who may not have a background in machine learning or ...

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[HTML] Deep learning

[Y LeCun, Y Bengio, G Hinton - nature, 2015 - nature.com](#)

Deep learning allows computational models that are composed of multiple processing layers to learn representations of data with multiple levels of abstraction. These methods have dramatically improved the state-of-the-art in speech recognition, visual object ...

☆ Cited by 30969 Related articles All 70 versions

Multimodal deep learning

[J Ngiam, A Khosla, M Kim, J Nam, H Lee, AY Ng - ICML, 2011 - openreview.net](#)

Deep networks have been successfully applied to unsupervised feature **learning** for single modalities (eg, text, images or audio). In this work, we propose a novel application of **deep** networks to learn features over multiple modalities. We present a series of tasks for ...

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Deep learning for health informatics

[D Ravi, C Wong, F Deligianni... - IEEE journal of ..., 2016 - ieeexplore.ieee.org](#)

With a massive influx of multimodality data, the role of data analytics in health informatics has grown rapidly in the last decade. This has also prompted increasing interests in the generation of analytical, data driven models based on machine **learning** in health ...

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Hyperparameter tuning deep learning for diabetic retinopathy fundus image classification

[K Shankar](#), [Y Zhang](#), [Y Liu](#), [L Wu](#), [CH Chen](#) - IEEE Access, 2020 - [ieeexplore.ieee.org](#)

Diabetic retinopathy (DR) is a major reason for the increased visual loss globally, and it became an important cause of visual impairment among people in 25–74 years of age. The DR significantly affects the economic status in society, particularly in healthcare systems ...

☆ Cited by 43

Deep learning on graphs: A survey

[Z Zhang](#), [P Cui](#), [W Zhu](#) - IEEE Transactions on Knowledge and ..., 2020 - [ieeexplore.ieee.org](#)

Deep learning has been shown to be successful in a number of domains, ranging from acoustics, images, to natural language processing. However, applying **deep learning** to the ubiquitous graph data is non-trivial because of the unique characteristics of graphs ...

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[PDF] Deep learning system to screen coronavirus disease 2019 pneumonia

[C Butt](#), [J Gill](#), [D Chun](#), [BA Babu](#) - Applied Intelligence, 2020 - Springer

Radiographic patterns on CT chest scans have shown higher sensitivity and specificity compared to RT-PCR detection of COVID-19 which, according to the WHO has a relatively low positive detection rate in the early stages. We technically review a study that compared ...

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[HTML] Deep learning on image denoising: An overview

[C Tian](#), [L Fei](#), [W Zheng](#), [Y Xu](#), [W Zuo](#), [CW Lin](#) - Neural Networks, 2020 - Elsevier

Deep learning techniques have received much attention in the area of image denoising. However, there are substantial differences in the various types of **deep learning** methods dealing with image denoising. Specifically, discriminative **learning** based on **deep learning** ...

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Deep learning on graphs: A survey

Search within citing articles

A comprehensive survey on graph neural networks

[Z Wu](#), [S Pan](#), [F Chen](#), [G Long](#), [C Zhang](#)... - IEEE Transactions on ..., 2020 - [ieeexplore.ieee.org](#)

Deep learning has revolutionized many machine learning tasks in recent years, ranging from image classification and video processing to speech recognition and natural language understanding. The data in these tasks are typically represented in the Euclidean space ...

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Graph neural networks: A review of methods and applications

[J Zhou](#), [G Cui](#), [Z Zhang](#), [C Yang](#), [Z Liu](#), [L Wang](#)... - arXiv preprint arXiv ..., 2018 - [arxiv.org](#)

Lots of learning tasks require dealing with graph data which contains rich relation information among elements. Modeling physics system, learning molecular fingerprints, predicting protein interface, and classifying diseases require a model to learn from graph ...

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Convergence of edge computing and deep learning: A comprehensive survey

[X Wang](#), [Y Han](#), [VCM Leung](#), [D Niyato](#)... - ... Surveys & Tutorials, 2020 - [ieeexplore.ieee.org](#)

Ubiquitous sensors and smart devices from factories and communities are generating massive amounts of data, and ever-increasing computing power is driving the core of computation and services from the cloud to the edge of the network. As an important enabler ...

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[PDF] Gnn explainer: A tool for post-hoc explanation of graph neural networks

[R Ying](#), [D Bourgeois](#), [J You](#), [M Zitnik](#)... - arXiv preprint arXiv ..., 2019 - [researchgate.net](#)

ABSTRACT Graph Neural Networks (GNNs) are a powerful tool for machine learning on graphs. GNNs combine node feature information with the graph structure by using neural networks to pass messages through edges in the graph. However, incorporating both graph ...

Deep learning on graphs: A survey

[Z Zhang](#), [P Cui](#), [W Zhu](#) - IEEE Transactions on Knowledge and ..., 2020 - [ieeexplore.ieee.org](#)

Deep learning has been shown to be successful in a number of domains, ranging from acoustics, images, to natural language processing. However, applying deep learning to the ubiquitous graph data is non-trivial because of the unique characteristics of graphs ...

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[CITATION] Deep Learning on Graphs: A Survey

[Z Zhang](#), [P Cui](#), [W Zhu](#)



Deep Learning on Graphs: A Survey

[Z Zhang](#), [P Cui](#), [W Zhu](#) - arXiv, 2018 - [ui.adsabs.harvard.edu](#)

Deep learning has been shown to be successful in a number of domains, ranging from acoustics, images, to natural language processing. However, applying deep learning to the ubiquitous graph data is non-trivial because of the unique characteristics of graphs ...



Deep Learning on Graphs: A Survey

[Z Zhang](#), [P Cui](#), [W Zhu](#) - arXiv preprint arXiv:1812.04202, 2018 - [arxiv.org](#)

Deep learning has been shown successful in a number of domains, ranging from acoustics, images to natural language processing. However, applying deep learning to the ubiquitous graph data is non-trivial because of the unique characteristics of graphs. Recently, a ...



O artigo foi publicado inicialmente no arxiv, em 2018.

Esse é um dos motivos dele ter atualmente 179 citações.

Computer Science > Machine Learning

[Submitted on 11 Dec 2018 (v1), last revised 13 Mar 2020 (this version, v3)]

Deep Learning on Graphs: A Survey

Ziwei Zhang, Peng Cui, Wenwu Zhu

Deep learning has been shown to be successful in a number of domains, ranging from acoustics, images, to natural language processing. However, applying deep learning to the ubiquitous graph data is non-trivial because of the unique characteristics of graphs. Recently, substantial research efforts have been devoted to applying deep learning methods to graphs, resulting in beneficial advances in graph analysis techniques. In this survey, we comprehensively review the different types of deep learning methods on graphs. We divide the existing methods into five categories based on their model architectures and training strategies: graph recurrent neural networks, graph convolutional networks, graph autoencoders, graph reinforcement learning, and graph adversarial methods. We then provide a comprehensive overview of these methods in a systematic manner mainly by following their development history. We also analyze the differences and compositions of different methods. Finally, we briefly outline the applications in which they have been used and discuss potential future research directions.

Comments: Accepted by Transactions on Knowledge and Data Engineering. 24 pages, 11 figures

Subjects: **Machine Learning (cs.LG)**; Social and Information Networks (cs.SI); Machine Learning (stat.ML)

Cite as: [arXiv:1812.04202](https://arxiv.org/abs/1812.04202) [cs.LG]

(or [arXiv:1812.04202v3](https://arxiv.org/abs/1812.04202v3) [cs.LG] for this version)

Submission history

From: Ziwei Zhang [[view email](#)]

[v1] Tue, 11 Dec 2018 03:16:57 UTC (1,325 KB)

[v2] Mon, 11 Nov 2019 13:00:58 UTC (5,224 KB)

[v3] Fri, 13 Mar 2020 04:07:37 UTC (3,597 KB)

**Gostaria de ver um exemplo de ‘melhora’
De um artigo científico?**

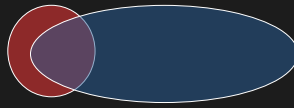
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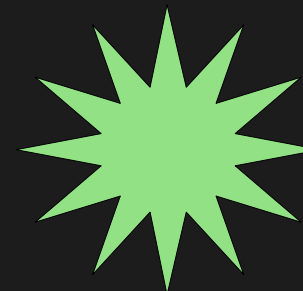
Sobre revisão bibliográfica



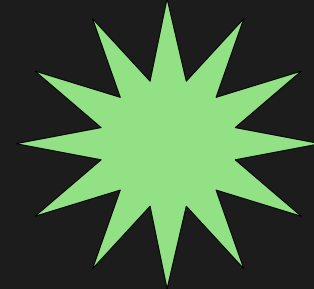
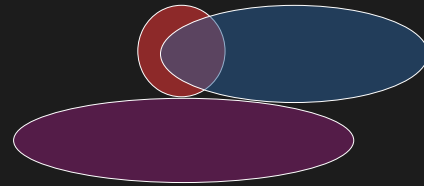
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Sobre revisão bibliográfica



Sobre revisão bibliográfica



Como identificar os trabalhos
Mais importantes e relacionados com eu projeto?



Busca ativa e Busca passiva

Em busca de vagas de emprego é nitida ambas as formas:

- **Ativa:**

Você procura oportunidades de acordo com seus objetivos de carreira. Você vai na procura.

- **Passiva:**

Você deposita seu CV em um banco de dados onde os empregadores procuram candidatos. Contando que o empregador fará a correspondência.

Sobre revisão bibliográfica

- **A busca ativa:**

Você procura os artigos nas bases bibliográficas.

- **A busca passiva:**

Você usa um conjunto de alertas para ser informado toda vez que alguma publicação correlata esteja presente na base.



Busca ativa

Sobre revisão bibliográfica

- Inicie com a **leitura crítica (busca ativa)** de trabalhos **mais abrangentes** que dêem uma visão do todo (livros, surveys) para **depois ir se aprofundando** em temas mais específicos.
- Evite o “**Não encontrei nada parecido com o que estou fazendo**”:
 - Nunca se deve dizer que não se achou nada semelhante.
 - Algo sempre deve ser apresentado como referência.
 - Essa referência poderá ser mais semelhante ou menos semelhante à abordagem usada de um ponto de vista relativo.

Sobre revisão bibliográfica

“Ninguém fez algo parecido com o que eu estou fazendo, **mas** muitas coisas já foram feitas”.

Então, eu **podéria classificar as coisas que já foram feitas em termos de grau de semelhança** com aquilo que eu estou fazendo.

As coisas mais parecidas com o meu trabalho serão minha referência, **mesmo que a semelhança seja pequena**”.

Sobre revisão bibliográfica

Fichas de leitura:

- Durante todo o processo de leitura é **importante** que sejam feitas **anotações**.
- **Conceitos-chave e ideias novas** devem ser anotadas sempre que forem **detectados** na leitura.
- É necessário que se saiba **de onde** estas idéias e conceitos **saíram**.

Tipos de fontes de bibliográficas

- **Os livros/teses/dissertações** normalmente contêm informação mais completa, didática e bem amadurecida.
- **Os artigos em eventos** terão informações mais atuais, mas poderão variar bastante em termos de qualidade.
- **Os artigos preprint** tem informações atuais mas notar que provavelmente a avaliação por pares sugerirá melhoras.
- **Os artigos em periódicos** terão sido arduamente revisados entre pares. Quando publicados talvez já não sejam mais tão atuais quanto os artigos em eventos/preprints.

Principais plataformas e bases de dados

- DBLP (computer science bibliography): <http://dblp.uni-trier.de>
 - ACM Digital library: <http://dl.acm.org/dl.cfm>
 - IEEE Computer society digital library: <https://www.computer.org/csdl>
 - Arxiv: Computing research repository: <https://arxiv.org/corr>
-
- Portal de Periódicos CAPES: <http://www.periodicos.capes.gov.br>
 - Scielo: <http://www.scielo.br>
-
- Semantic scholar: <https://www.semanticscholar.org>
 - CiteSeerX: <http://csxstatic.ist.psu.edu>
-
- Dimension: <https://www.dimensions.ai/>
 - Baidu Acadêmico: <https://xueshu.baidu.com/>
 - Microsoft Acadêmico: <https://academic.microsoft.com/home>



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PUBLICATION YEAR

- 2020 40,502
- 2019 38,232
- 2018 22,529
- 2017 11,279
- 2016 5,105
- 2015 2,739
- 2014 1,355
- 2013 872
- 2012 631
- 2011 479

More

RESEARCHER

RESEARCH CATEGORIES

PUBLICATION TYPE

SOURCE TITLE

JOURNAL LIST

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PUBLICATIONS 127,450 DATASETS 988 GRANTS 11,802 PATENTS 5,030 CLINICAL TRIALS 503 POLICY DOCUMENTS 3

Show abstract Sort by: Relevance

Title, Author(s), Bibliographic reference - [About the metrics](#)

[The association between deep learning approach and case based learning](#)

Meenakshi Jhala, Jai Mathur

2019, BMC Medical Education - Article

Being medical students, and having experienced different learning approaches ourselves, here, we discuss and critically analyse the importance of the deep learning approach that Chonkar et al. have pr... [more](#)

2 View PDF Add to Library

[On Artificial Intelligence and Deep Learning Within Medical Education.](#)

Lawrence Carin

2020, Academic Medicine - Article

The methodology of deep learning, a component of machine learning and artificial intelligence, is introduced. The opportunity for this technology to automate some aspects of medical practice is review... [more](#)

6 Open Access Add to Library

[A primer on deep learning in genomics](#)

James Zou, Mikael Huss, Abubakar Abid, Pejman Mohammadi, Ali Torkamani, Amalio Telenti

2019, Nature Genetics - Article

Deep learning methods are a class of machine learning techniques capable of identifying highly complex patterns in large datasets. Here, we provide a perspective and primer on deep learning applicatio... [more](#)

135 351 Add to Library

[Applications of deep learning for the analysis of medical data](#)

ANALYTICAL VIEWS

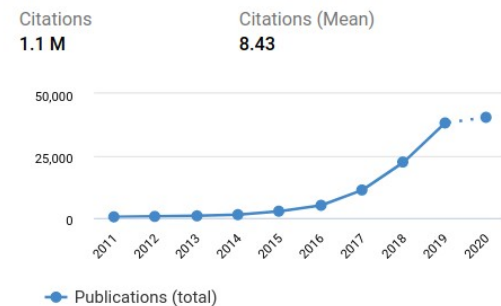


RESEARCH CATEGORIES

- 08 Information and Computing Sciences 85,359
- 0801 Artificial Intelligence and Image Processing 80,756
- 11 Medical and Health Sciences 11,100
- 09 Engineering 10,964
- 17 Psychology and Cognitive Sciences 10,241



OVERVIEW



RESEARCHERS

- [Yoshua Y Bengio](#) 160
University of Montreal, Canada
- [Dinggang G Shen](#) 147
University of North Carolina at Chapel Hill, United States

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📅 Time

1982-2021 ▾

🏷️ Top Topics

- Artificial intelligence
- Deep learning
- Computer science
- Machine learning
- Artificial neural network
- Convolutional neural network
- Pattern recognition
- Computer vision
- Object detection
- Feature learning

MORE

📄 Publication Types

- Conference publications
- Journal publications
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Result accuracy:
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SORT BY RELEVANCE ⓘ

ImageNet classification with deep convolutional neural networks 79,532 citations* for all
2017 COMMUNICATIONS OF THE ACM 8,540 citations*

Alex Krizhevsky ¹, Ilya Sutskever ¹, Geoffrey E. Hinton ²
¹ Google, ² OpenAI

🏷️ Convolutional neural network 🏷️ Artificial neural network 🏷️ Overfitting View More (7+) ▾

We trained a large, deep convolutional neural network to classify the 1.2 million high-resolution images in the ImageNet LSVRC-2010 contest into the 1000 different classes. On the test data, we achieved top-1 and top-5 error rates of 37.5% and 17.0%, respectively, which is considerably better than t... View Full Abstract ▾

" deep learning " EXCERPTS (20) 📄 📖 📑 🗨️

ImageNet Classification with Deep Convolutional Neural Networks 70,992 citations*
2012 NEURAL INFORMATION PROCESSING SYSTEMS View More ▾

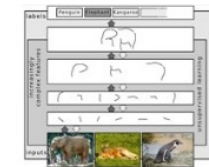
Deep Residual Learning for Image Recognition 56,467 citations* for all
2016 COMPUTER VISION AND PATTERN RECOGNITION 52,769 citations*
Kaiming He, Xiangyu Zhang, Shaoqing Ren, Jian Sun
Microsoft

🏷️ Deep learning 🏷️ Residual 🏷️ Convolutional neural network View More (10+) ▾

Deeper neural networks are more difficult to train. We present a residual learning framework to ease the training of networks that are substantially deeper than those used previously. We explicitly reformulate the layers as learning residual functions with reference to the layer inputs, instead of l... View Full Abstract ▾

" deep learning " 📄 📖 📑 🗨️

🏷️ Deep learning



Deep learning (also known as deep structured learning) is part of a broader family of machine learning methods based on artificial neural networks with representation learning. Learning can be supervised, semi-supervised or

unsupervised.

PARENT TOPICS

🏷️ Artificial neural network

CHILD TOPICS

🏷️ MNIST database

🏷️ Types of artificial neural networks

🏷️ Vanishing gradient problem View More (26+) ▾

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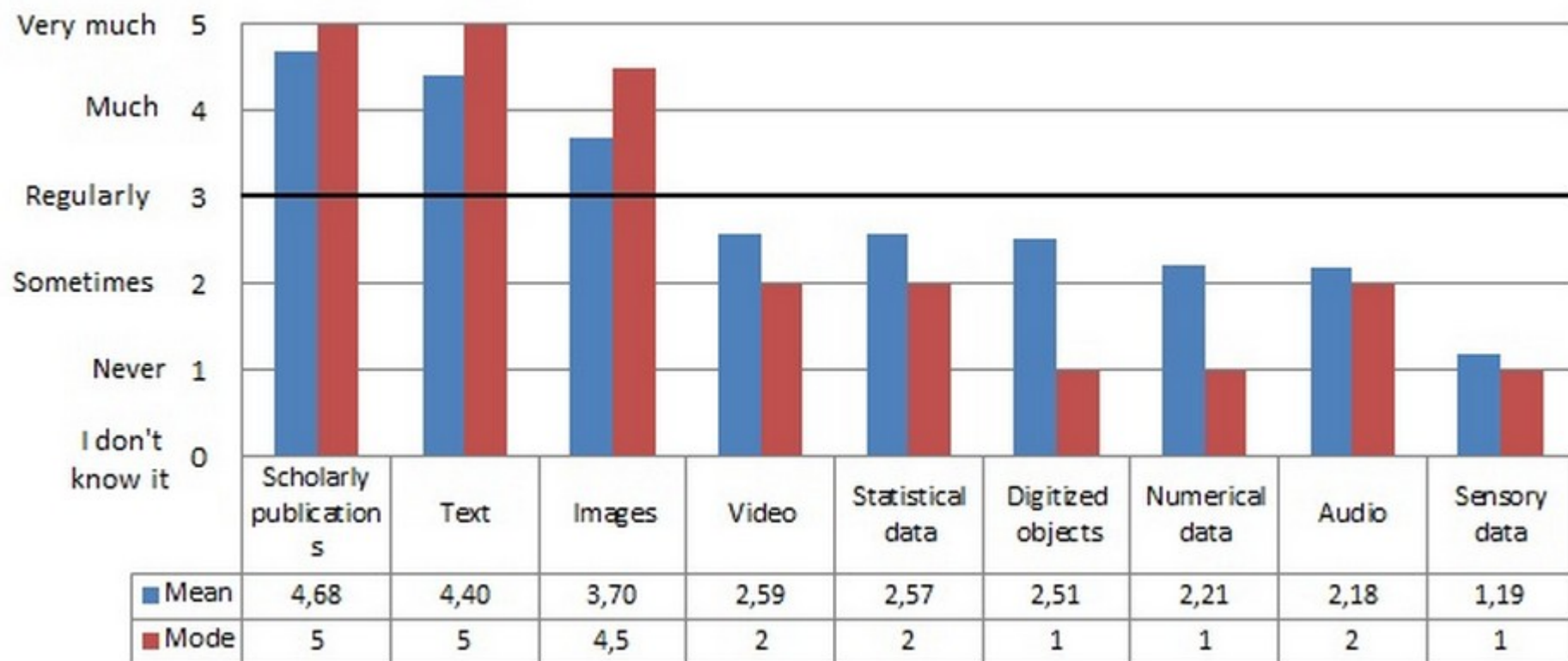
1. [arXiv:2010.05862](#) [pdf, other] [cs.LG](#) [cs.CV](#)**Robust Optimal Transport with Applications in Generative Modeling and Domain Adaptation****Authors:** [Yogesh Balaji](#), [Rama Chellappa](#), [Soheil Feizi](#)**Abstract:** ...the marginal constraints. To remedy this issue, robust formulations of OT with unbalanced marginal constraints have previously been proposed. However, employing these methods in [deep...](#) [More](#)**Submitted** 12 October, 2020; **originally announced** October 2020.**Comments:** Accepted in NeurIPS 2020. Code available at <https://github.com/yogeshbalaji/robustOT>2. [arXiv:2010.05855](#) [pdf] [cs.CV](#)**Fully Automatic Wound Segmentation with Deep Convolutional Neural Networks****Authors:** [Chuanbo Wang](#), [DM Anisuzzaman](#), [Victor Williamson](#), [Mrinal Kanti Dhar](#), [Behrouz Rostami](#), [Jeffrey Niezgoda](#), [Sandeep Gopalakrishnan](#), [Zeyun Yu](#)**Abstract:** ...images is an important part of the diagnosis and care protocol since it is crucial to measure the area of the wound and provide quantitative parameters in the treatment. Various [deep...](#) [More](#)**Submitted** 12 October, 2020; **originally announced** October 2020.3. [arXiv:2010.05838](#) [pdf, other] [cs.CV](#) [cs.DC](#)**Neural Enhancement in Content Delivery Systems: The State-of-the-Art and Future Directions****Authors:** [Royson Lee](#), [Stylianos I. Venieris](#), [Nicholas D. Lane](#)**Abstract:** ...robustly delivering visual content under fluctuating networking conditions on devices of diverse capabilities remains an open problem. In recent years, advances in the field of [deep...](#) [More](#)

Sobre os ombros de gigantes?

- Google, atualmente, desempenha um papel importante no fluxo de trabalho acadêmico.
- GoogleScholar é muito utilizado na descoberta e citação de artigos
 - **Pode estar moldando a escrita e a avaliação acadêmica?**
- O googleScholar é utilizado para identificar artigos científicos.
 - **qual é o impacto dele na ciência?**

Just Google it?

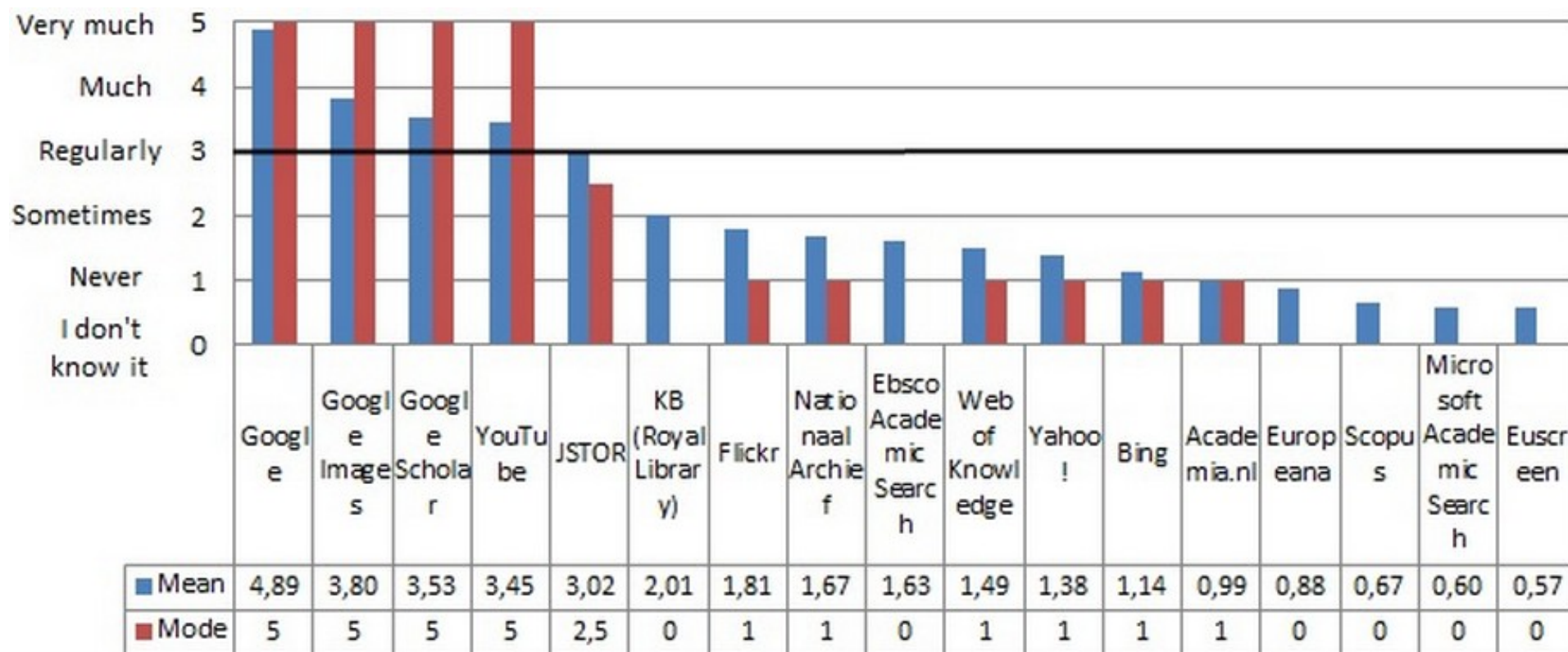
“Which of the following digital data or sources do you use professionally (i.e., for research or lecturing purposes)?”



Fonte: Kemman, M., Kleppe, M. and Scagliola, S., 2014. **Just Google It.** In Proceedings of the Digital Humanities Congress 2012. HRI Online Publications.

Just Google it?

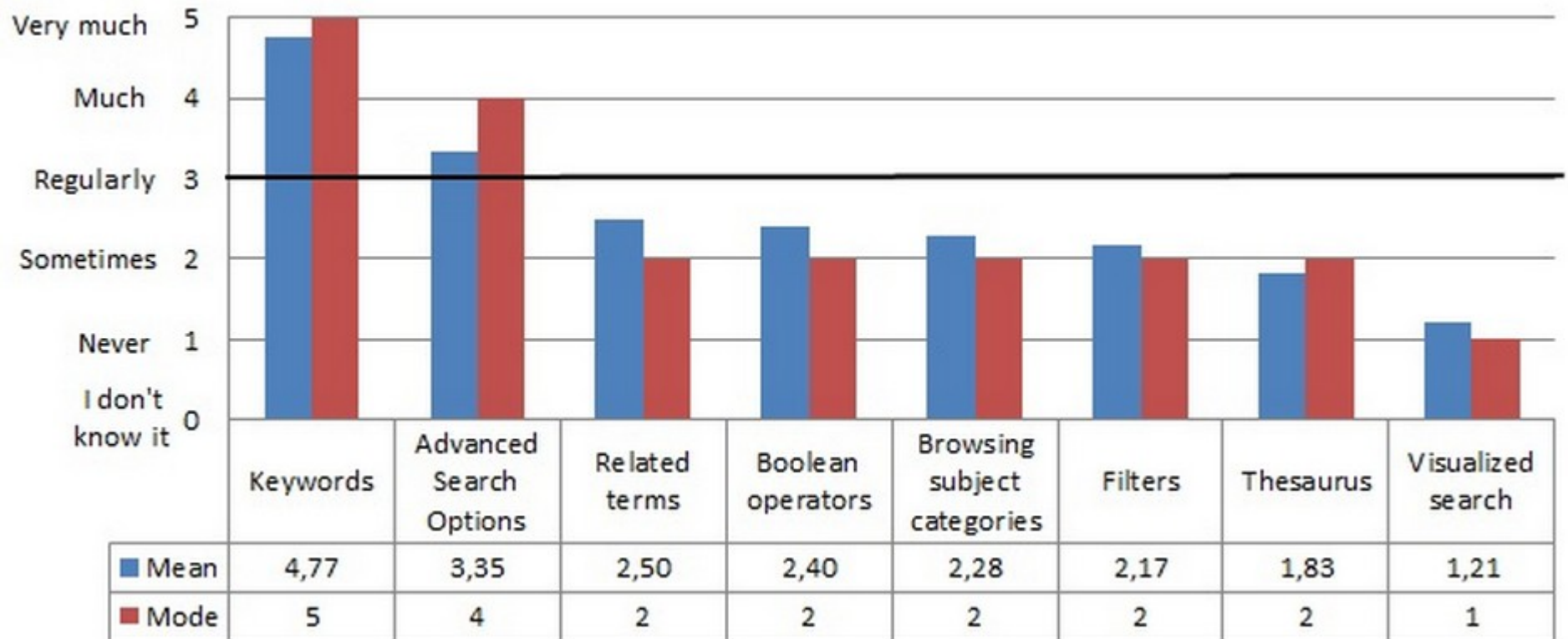
“Which of the following search engines, websites or databases do you use?”



Fonte: Kemman, M., Kleppe, M. and Scagliola, S., 2014. **Just Google It.** In Proceedings of the Digital Humanities Congress 2012. HRI Online Publications.

Just Google it?

“While searching the web, which of the following options do you use?”



Fonte: Kemman, M., Kleppe, M. and Scagliola, S., 2014. **Just Google It.** In Proceedings of the Digital Humanities Congress 2012. HRI Online Publications.

Sobre os ombros de gigantes?

- Google, pode não cobrir todas as fontes relevantes (cobre a maioria).
- **Apenas evidências:** Com o google (a partir de 2004)
 - O impacto de revistas que **não** são da “**elite**” aumentou.
 - O impacto de artigos **antigos** aumentou.
- Artigos são indexados pelo seu título (e search snippets) **dando menor ênfase para o veículo onde foram publicados**
- Artigos com maior número de citações apresentam maior ranking. → “Efeito Mateus” / “Rico fica mais rico”.

A ciência está mudando?



George Musser ✓
@gmusser

Google Scholar seems to be altering scholarly citation patterns. Citations are getting more concentrated: the same few papers get cited over and over, @jevinwest has found. People lazily cite whatever papers the search engine ranks highly. #metascience2019

[Scientometrics](#)

June 2016, Volume 107, [Issue 3](#), pp 1477–1487 | [Cite as](#)

Back to the past: on the shoulders of an academic search engine giant

A study released by the Google Scholar team found an apparently increasing fraction of citations to old articles from studies published in the last 24 years (1990–2013). To demonstrate this finding we conducted a complementary study using a different data source (Journal Citation Reports), metric (aggregate cited half-life), time span (2003–2013), and set of categories (53 Social Science subject categories and 167 Science subject categories). Although the results obtained confirm and reinforce the previous findings, the possible causes of this phenomenon keep unclear. We finally hypothesize that “first page results syndrome” in conjunction with the fact that Google Scholar favours the most cited documents are suggesting the growing trend of citing old documents is partly caused by Google Scholar.

时间 ^

2020以来 (1.3万)

2019以来 (2.8万)

2018以来 (4.1万)

年 - 年 确认

领域 ^

计算机科学与... (1.3万)

教育学 (4168)

生物医学工程 (1823)

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machine learning

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Deep Learning in neural networks: An overview

In recent years, deep artificial neural networks (including recurrent ones) have won numerous contests in pattern recognition and machine learning. This...

Jürgen , Schmidhuber - 《Neural Networks》 - 被引量: 2695 - 2015年

来源: Elsevier / www2.econ.iastate... / webpages.uidaho.edu / stanford.edu / ResearchGate

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A novel deep learning method for improving the belief propagation algorithm is proposed. The method generalizes the standard belief propagation algorithm...

E Nachmani , Y Be'Ery , D Burshtein - Communication, Co... - 被引量: 112 - 2017年

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作者: Jesus Pascual Mena-Chalco, Luciano Antonio Digiampietri, Fabricio Martins Lopes, R M Cesar-Jr

摘要: The Brazilian Lattes Platform is an important academic/resume dataset that registers all of the academic activity of researchers associated with different major knowledge areas. Currently, the activity of over a million researchers has been registered in this dataset. The academic information collected in this dataset is used to evaluate, analyze, and document the scientific production of research groups. Information about the interactions between Brazilian researchers in the form of co-authorships, however, has not been analyzed. In this paper we identified and characterized Brazilian academic

关键词: knowledge discovery scientometrics

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
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A Mcgettrick, R Boyle, R Ibbett, J Lloyd... - *The Computer ...*, 2005 - ieeexplore.ieee.org

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B Hayes - *Communications of the ACM*, 2008 - academia.edu

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T Hoare, R Milner - *The Computer Journal*, 2005 - ieeexplore.ieee.org

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Grand Challenges for Computing Research

T Hoare - *Computer Systems*, 2004 - Springer

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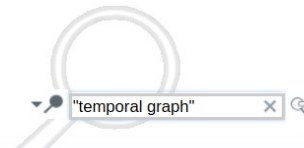
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Time FROM 2017 TO 2019

Top Topics: Cloud computing, Computer science, Communication channel, Computer network, Algorithm, Compressed sensing, Estimator, Path loss, Stochastic geometry, Oracle

Top Authors: Gerhard Wunder, Stelios Stefanatos, Ignacio M. Llorente, Soheil Gharekhlou, Zohalb Hassan Awan, Aydin Sezgin, Jaber Kakar, Osvaldo Simeone, Jingjing Zhang, Sriram Vishwanath

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The Limits to Cloud Price Reduction
2017 IEEE CLOUD COMPUTING
Ignacio M. Llorente *Harvard University*
Server, Operating expense, Electric power +6
Although public clouds benefit from economies of scale from massive and centralized data centers with high utilization, and continuous improvements in cost per unit of processing capacity from Moore's law, they're unlikely to be able to drop prices more than 15 percent annually over the long haul, b...
cloud computing ("cloud computer") limits CITATIONS* (4)

Who limits the resource efficiency of my datacenter: an analysis of Alibaba datacenter traces
2019 INTERNATIONAL WORKSHOP ON QUALITY OF SERVICE
Jing Guo¹, Zihao Chang¹, Sa Wang¹, Haiyang Ding², Yihui Feng² see all 7 authors
¹Chinese Academy of Sciences, ²Alibaba Inc.#TAB#
Resource management, Resource efficiency, Operating system +5
Cloud platform provides great flexibility and cost-efficiency for end-users and cloud operators. However, low resource utilization in modern datacenters brings huge wastes of hardware resources and infrastructure investment. To improve resource utilization, a straightforward way is co-locating diffe...
cloud computing ("cloud computer") limits CITATIONS* (0)

Performance Limits of Compressive Sensing Channel Estimation in Dense Cloud RAN
2018 INTERNATIONAL CONFERENCE ON COMMUNICATIONS
Stelios Stefanatos¹, Gerhard Wunder²
¹University of Piraeus, ²Free University of Berlin
Stochastic geometry, Real-time computing, Path loss +8
Towards reducing the training signaling overhead in large scale and dense cloud radio access networks (CRAN), various approaches have been proposed based on the channel sparsification assumption, namely, only a small subset of the deployed remote radio heads (RRHs) are of significance to any user in...
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Performance Limits of Compressive Sensing Channel Estimation in Dense Cloud RAN
2017 ARXIV: INFORMATION THEORY
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Fundamental limits on latency in cloud- and cache-aided HetNets
2017 INTERNATIONAL CONFERENCE ON COMMUNICATIONS
Jaber Kakar, Soheil Gharekhlou, Zohalb Hassan Awan, Aydin Sezgin
Ruhr University Bochum
Real-time computing, Latency (engineering), Heterogeneous network +8
Hybrid architectures are generally composed of a cyber cloud with additional support of edge caching. By utilizing the benefits associated with cloud computing and caching, powerful enhanced interference management techniques can be readily utilized — that among others — also results in low-latency ...
cloud computing ("cloud computer") limits CITATIONS* (16)

Fundamental Limits of Cloud and Cache-Aided Interference Management with Multi-Antenna Base Stations
2018 INTERNATIONAL SYMPOSIUM ON INFORMATION THEORY
Jingjing Zhang, Osvaldo Simeone
King's College London
Wireless network, Wireless, Precoding +8
In cellular systems, content delivery latency can be minimized by jointly optimizing edge caching, fronthaul transmission from a cloud processor (CP) with access to the content library, and wireless transmission. In this paper, this problem is studied from an information-theoretic viewpoint by makin...

Cloud computing
Cloud computing is the on-demand availability of computer system resources, especially data storage and computing power, without direct active management by the user. The term is generally used to describe data centers available to many users over the Internet. Large clouds, predominant today, often...
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CHILD TOPICS: Virtualization, Cloud physics
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"robotic head" AND human



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Facial expression

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Top Authors

Ricardo Gomes Loureiro

Publication Types

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[book] Expressive Robotic Head for Human-Robot Interaction Studies

2020

Ricardo Pereira, Luís Garrote, Tiago Barros, Carlos Carona, Luís C. Bento see all 6 authors

Human-robot interaction

Human-computer interaction

Computer science

CITATIONS* (0)

Deep learning-based human head detection and extraction for robotic portrait drawing

2017 ROBOTICS AND BIOMIMETICS

Xiaofeng Ye¹, Ye Gu¹, Weihua Sheng¹, Fei Wang², Hu Chen² see all 6 authors

¹ Shenzhen Academy of Robotics, Shenzhen, Guangdong, China, ² Northeastern University

Robot

Portrait

Object detection

+8

This paper presents a head detection and extraction method that can be used in robotic portrait drawing. First, using the state-of-the-art, real-time object detection system-YOLO(You Only Look Once), we train the model to automatically detect human heads directly from the image. Then we utilize the ...

CITATIONS* (0)

Development of a Robotic Head to Express Human Emotions

2017

Ricardo Gomes Loureiro

Psychology

Facial expression

Communication

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"machine learning" AND "temporal series"

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By Francisco Javier Cuberos García-Baquero, Luis González Abril, Francisco Velasco Morente and Juan Antonio Ortega Ramírez

Repository: idUS. Depósito de Investigación Universidad de Sevilla | 2007

...His main research interests are the analysis of **temporal series** of dynamical systems. Computación y Sistemas Vol. 11 No. 1, 2007, pp 5-13 ISSN 1405-5546...

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Patterns in temporal series of meteorological variables using SOM & TDIDT

By Marisa Gloria Cogliati, Paola Verónica Britos and Ramón García Martínez

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...This trend continues today with newer approaches based on **machine learning** algorithms [Hsieh and Tang, 1998; Monahan, 2000]...

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Regional scale land use/land cover classification using temporal series of MODIS data

By Milton Jonathan, Margareth Simões Penello Meirelles, Jean-Paul Berroir and Isabelle Herlin

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By G Morello

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Quando realizar a revisão bibliográfica?

Sobre revisão bibliográfica

- Quando fazer?
- Em quais meses?
- Em quantos meses?

Cronograma

Atividade	2016			2017			2018			2019		
	Q3	Q1	Q2	Q3	Q1	Q2	Q3	Q1	Q2	Q3	Q1	Q2
1. Elaboração do projeto enviado à FAPESP			o									
2. Estudo de disciplinas obrigatórias (créditos)	o	o	o	X								
3. Revisão bibliográfica	o	o	o	X	X	X	X	X	X	X	X	,
4. Prospecção dos dados e criação do grafo de genealogia		o	o	X	X							
5. Classificação e criação												

	Ano 1			Ano 2			Ano 3		
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9
Cursar disciplinas obrigatórias	[Barra azul e cinza]								
Fazer levantamento bibliográfico	[Barra azul e cinza]								
Criar plataforma computacional de genealogia acadêmica		[Barra cinza]							
Etapa I		[Barra cinza]							

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- Apresentação do aluno: 42 minutos
- Participação do avaliador 1: 33 minutos
- Participação do avaliador 2: 45 minutos
- Tempo total da defesa: 120 minutos (2 horas)

3 Perguntas importantes

3.1 Duas perguntas 'fáceis' realizadas pelos avaliadores

- Porque o levantamento bibliográfico, no cronograma, está em toda a etapa de pesquisa do mestrado?
- Por que o capítulo motivacional é tão grande, em comparação a outros capítulos?

Sobre revisão bibliográfica

Perguntas geradoras de ideias de pesquisa

- De onde o autor parece tirar suas ideias?
- O que foi obtido como resultado deste trabalho?
- Como este trabalho se relaciona com outros na mesma área?
- Qual seria um próximo passo razoável para dar continuidade a essa pesquisa?
- Que ideias de áreas próximas poderiam ser aproveitadas neste trabalho?

Atividade (bônus na sua nota)

- Crie uma aba com seu nome e preencha todas as informações presentes na planilha:
- <https://docs.google.com/spreadsheets/d/1ICJiHUJkZLWKaehx7G4K6XsjBgQGpYLjYorMj7xyJHs/edit?usp=sharing>