



Guest talk: Research dissemination

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25.06.2025

\$ whoami

BSc in Systems Analysis
MSc in Artificial Intelligence
PhD in Software, Systems and Computing

Post-docs in EPFL and UniBe
Staff Research Scientist at MacPaw

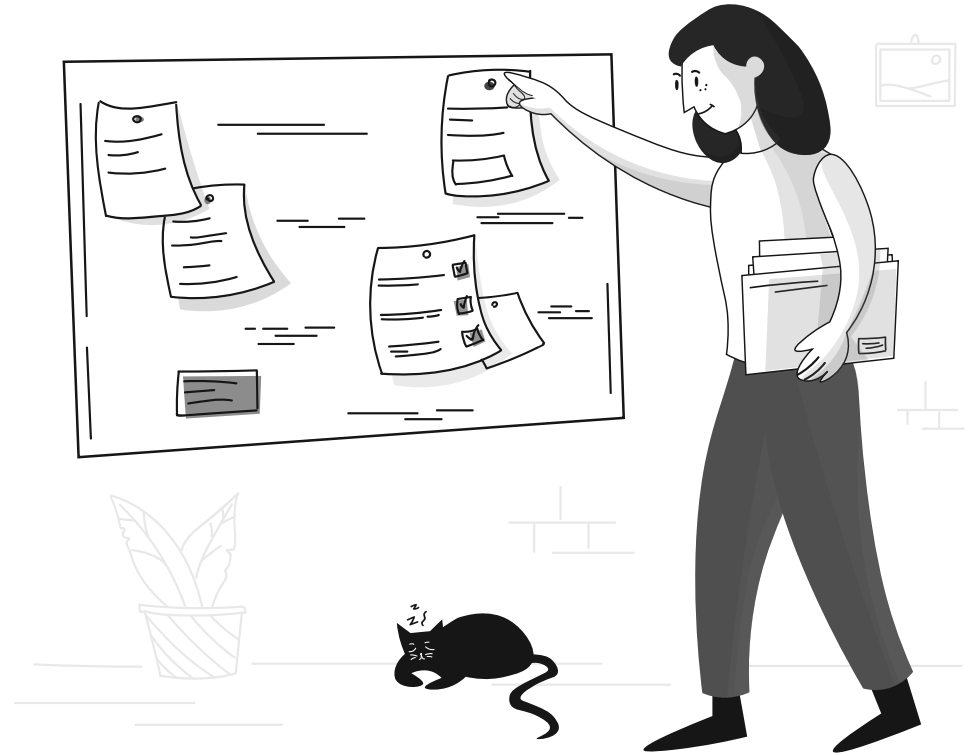
Computer scientist working on tool and techniques to
understand what the programs are actually doing

Trust nobody, question everything

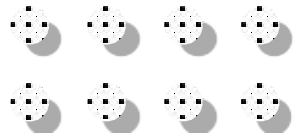


so, research dissemination:

- non-research tech publications
- conferences, journals, books
- incremental publication flow
- money: APC and predatory publishing
- science is [not beyond] politics
- bonus: fun + Q&A

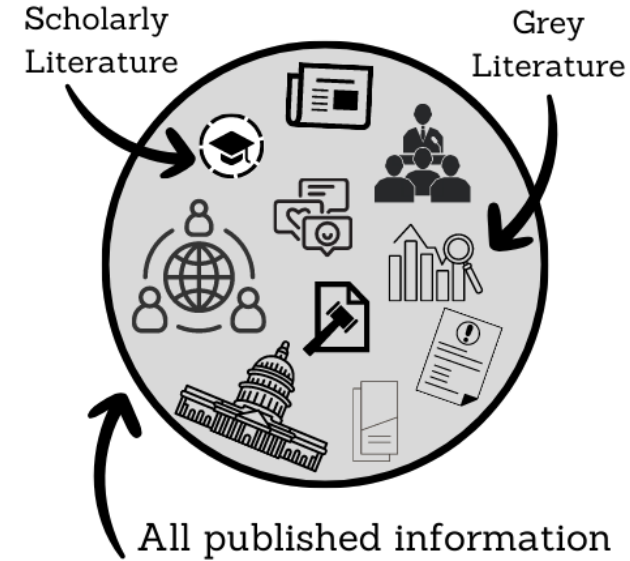


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***funny how we keep “white = good” in research**

Unlike White Literature, Grey Literature is not peer reviewed and is not typically published in books or scholarly journals.



Why grey literature?

- When speed is more important for IP
- Archival practices for intermediate stage work
- Company policies (PR, branding)

Cornell University We gratefully acknowledge support from II

arXiv > cs > arXiv:1706.03762v1 Search... Help | A

Computer Science > Computation and Language

[Submitted on 12 Jun 2017 (this version), latest version 2 Aug 2023 (v7)] <https://arxiv.org/abs/1706.03762>

Attention Is All You Need

Ashish Vaswani, Noam Shazeer, Niki Parmar, Jakob Uszkoreit, Llion Jones, Aidan N. Gomez, Lukasz Kaiser, Illia Polosukhin

The dominant sequence transduction models are based on complex recurrent or convolutional neural networks in an encoder-decoder configuration. The best performing models also connect the encoder and decoder through an attention mechanism. We propose a new simple network architecture, the Transformer, based solely on attention mechanisms, dispensing with recurrence and convolutions entirely. Experiments on two machine translation tasks show these models to be superior in quality while being more parallelizable and requiring significantly less time to train. Our model achieves 28.4 BLEU on the WMT 2014 English-to-German translation task, improving over the existing best results, including ensembles by over 2 BLEU. On the WMT 2014 English-to-French translation task, our model establishes a new single-model state-of-the-art BLEU score of 41.0 after training for 3.5 days on eight GPUs, a small fraction of the training costs of the best models from the literature. We show that the Transformer generalizes well to other tasks by applying it successfully to English constituency parsing both with large and limited

Comments: 15 pages, 5 figures

Subjects: **Computation and Language**

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<https://dl.acm.org/doi/10.5555/3295222.3295349>

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Attention is all you need

Authors Ashish Vaswani, Noam Shazeer, Niki Parmar, Jakob Uszkoreit, Llion Jones, Aidan N. Gomez, Lukasz Kaiser, Illia Polosukhin | [Authors Info & Claims](#)

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Pages 6000 - 6010

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4,117 49,676 PDF eReader Publisher Site

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DEFENSIVE PUBLICATIONS SERIES

Google Votes: A Liquid Democracy Experiment on a Corporate Social Network

[Steve Hardt](#)
[Lia C. R. Lopes](#)

Abstract

This paper introduces Google Votes, an experiment in liquid democracy built on Google's internal corporate Google+ social network. Liquid democracy decision-making systems can scale to cover large groups by enabling voters to delegate their votes to other voters. This approach is in contrast to direct democracy systems where voters vote directly on issues, and representative democracy systems where voters elect representatives to vote on issues for them. Liquid democracy systems can provide many of the benefits of both direct and representative democracy systems with few of the weaknesses. Thus far, high implementation complexity and infrastructure costs have prevented widespread adoption. Google Votes demonstrates how the use of social-networking technology can overcome these barriers and enable practical liquid democracy systems. The case-study of Google Votes usage at Google over a 3 year timeframe is included, as well as a framework for evaluating vote visibility called the "Golden Rule of Liquid Democracy".

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5,749,070

MULTI-REPRESENTATIONAL DATA STRUCTURE FOR RECOGNITION IN COMPUTER SYSTEMS

This is a continuation, of application Ser. No. 08/120,151
filed Sept. 9, 1993 now abandoned.

BACKGROUND OF THE INVENTION

This invention relates generally to a data structure adapted
for use in recognition capable computer systems. More
particularly the invention relates to a multirepresentational
data structure architecture that is particularly well suited for
use with a variety of different application programs and
recognition engines.

Graphical user interfaces or GUI are becoming increas-
ingly popular with computer users. It is generally accepted
that computers having graphical user interfaces are easier to
use, and that it is quicker to learn an application program in
a GUI environment than in a non-GUI environment. A
relatively new type of computer which is well suited for
graphical user environments is the pen-based or pen-aware
("pen") computer system. One common type of pen-based
computer system is a small, hand-held computer where the
primary method for inputting data includes a "pen" or stylus.
Another type of pen-based computer system, often referred
to as a pen-aware computer system is one which has been
modified to accept pen inputs in addition to traditional input
methods.

A pen computer system is often housed in a relatively flat
enclosure, and has a dual-function display assembly which
serves as both an input device and an output device. When
operating as an input device, the display assembly senses the
position of the tip of a stylus on the viewing screen and
provides this positional information to the computer's cen-
tral processing unit (CPU). Some display assemblies can
also sense the pressure of the stylus on the screen to provide
further information to the CPU. When operating as an output
device, the display assembly presents computer-generated
images on the screen.

The dual-function display assemblies of pen-based com-
puter systems permit users to operate the computer as a
computerized notepad. For example, graphical images can
be input into the pen-based computer by merely moving the
stylus across the surface of the screen. A stroke is defined as
the engagement of the screen with a stylus, the movement of
the stylus across the screen (if any), and its subsequent
disengagement from the screen. As the CPU senses the
position and movement of the stylus, it generates a corre-
sponding image on the screen to create the illusion that the
stylus is drawing the image directly upon the screen, i.e. that
the stylus is "inking" an image on the screen. With suitable
recognition software, text and numeric information can also
be entered into the pen-based computer system in a similar
fashion.

applications. In this arrangement, the operating system acts
as a mediator finding available recognition engines, allocat-
ing the resources necessary to their operation (such as
memory, files, etc.) and performing low-level communica-
tion with the recognition engine on behalf of the application.

The recognition engine is a component. That is, it is a
predefined class of software that can be readily replaced.
Accordingly, it is desirable to provide a standardized set of
services and interfaces between recognition engines and
operating systems. This allows the simultaneous use of a
plurality of recognition engines and/or allows a selected
recognition engine to be replaced with more accurate and
faster versions as they become available without having to
change the application. Accordingly, there have been ongo-
ing efforts that attempt to standardize this interface so that a
variety of sources can develop recognition engines suitable
for use in a variety of environments. FIG. 1 shows a
representative recognition architecture in accordance with
this described arrangement.

Specifically, an application program 500 communicates
bidirectionally with the operating system 502 which com-
municates bidirectionally with a recognition engine 504 on
two different levels. The first level allocates and requests
resources and the second level is a low level communication.
The communication from the application program to the
operating system are primarily in the form of raw data and
the communications from the operating system to the ap-
plication program are primarily in the form of recognized data.
The input to the recognition engine is a recognition data list.
The recognition data list is a data structure representing a list
of data. By way of example, the list of data may entail
strokes or speech segments. The output of the recognition
engine is a recognition results structure. The object of the
present invention is to provide standardized data list and
recognition result structures which are particularly well
suited for general use in a standardized recognition archi-
tecture.

SUMMARY OF THE INVENTION

To achieve the foregoing and other objects and in accor-
dance with the purpose of the present invention, an im-
proved recognition data structure is described that is
particularly well suited for use in a computer system having
recognition abilities. The data structure includes a multi-
representational data list section arranged to store a multi-
plicity of datum.

Each datum includes a datum reference number that
uniquely identifies that datum and is arranged to contain a
plurality of representation zones. Each representation zone
is arranged to hold data indicative of a particular represen-
tation of the data stored in the datum. The data structure also
includes a trellis based recognition results section arranged
to accommodate trellis based recognition results at a plu-
rality of different trellis levels.



Image credits: Warner Bros Pictures

From grey to white: peer review

Quality control from domain experts

Conferences: 2-4 reviews per submission from the Program Committee members, 1-2 review rounds (optional rebuttal), time deadline, contributions from everyone

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2024 ACM/IEEE 44th International Conference on Software Engineering

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Journals: 2-4 reviews per manuscript from individually invited domain experts, several revision iterations until reviewer consensus, issue format, contributions from everyone

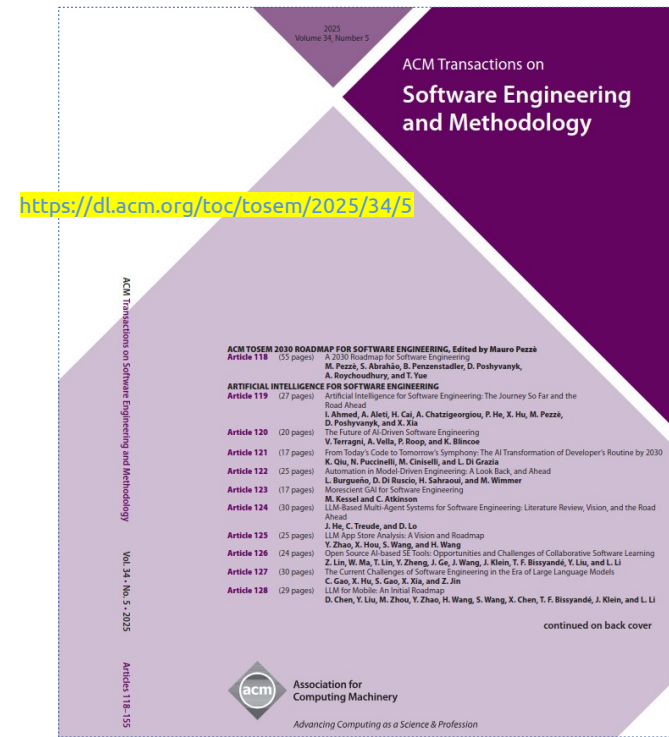




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Journals: 2-4 reviews per manuscript from individually invited domain experts, several revision iterations until reviewer consensus, issue format, contributions from everyone

Books: Editors' responsibility, invitation-based contribution in chapter format from well-established field experts

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Andrei Kucharavy · Octave Plancherel ·
Valentin Mulder · Alain Mermoud ·
Vincent Lenders *Editors*

Large Language Models in Cybersecurity

Threats, Exposure and Mitigation

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01

Prepare

Write the initial manuscript or book chapter + set up the replication package or any online addendums

03

Review

Embrace (multiple rounds of) peer review, sometimes including a rebuttal. Embrace the possibility of a LLM review :-/

02

(Re)submit

Send (the revised version of) the manuscript to the target conference/journal, or send the book chapter to the editor(s)

04

Publish

Level up your legal game by figuring out licenses, article processing charges (APC), and wait for the publisher work

Extended Abstract / Poster

The smallest possible research paper. EA can range from 1-2 to 8 pages, the poster itself is typically A0 format and depends on your taste and design skills.

Position or vision paper

Less formal than a regular short paper, presents an opinion, can be technical too

ERA, NIER, RENE, Data, Tools, Industry paper

Specialized short papers to present ideas in the initial development state, demo prototypes, do replication studies, or describe real-world use



Short paper

Format one would use for reporting preliminary research results and gain community feedback, 4-5 pages limit

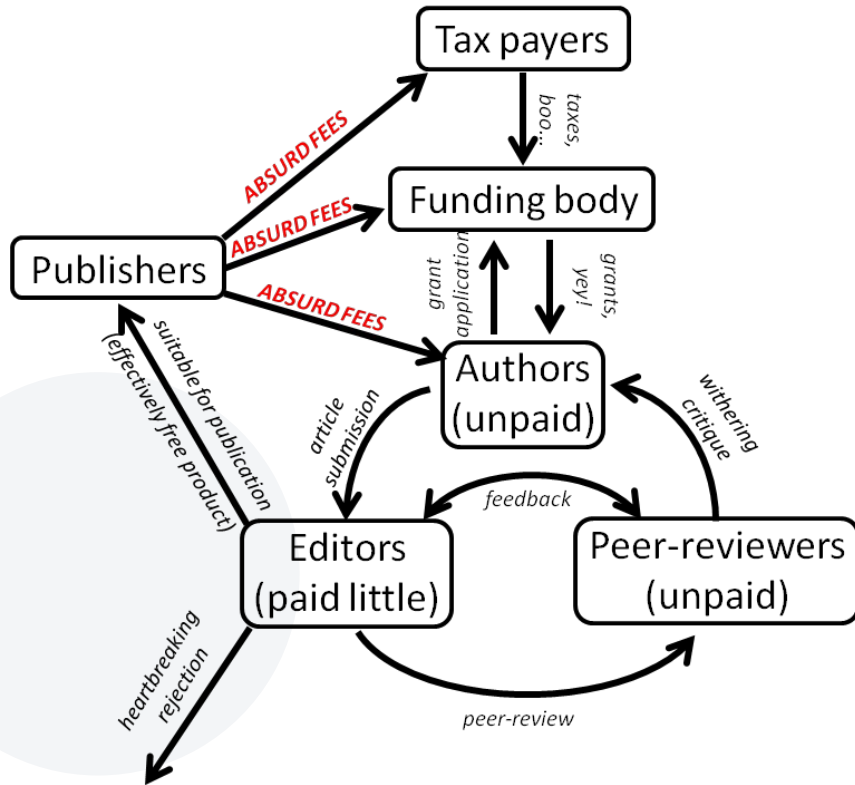
Full/journal-first paper

Most commonly used format in Computer Science conferences, 8-12 pages, strict page limit (for review fairness)

Journal paper

Does not really have a fixed length limit anymore, often is created from a full conference paper + 30% or new content (experiments, proofs, data etc.)

Academic Publishing Business

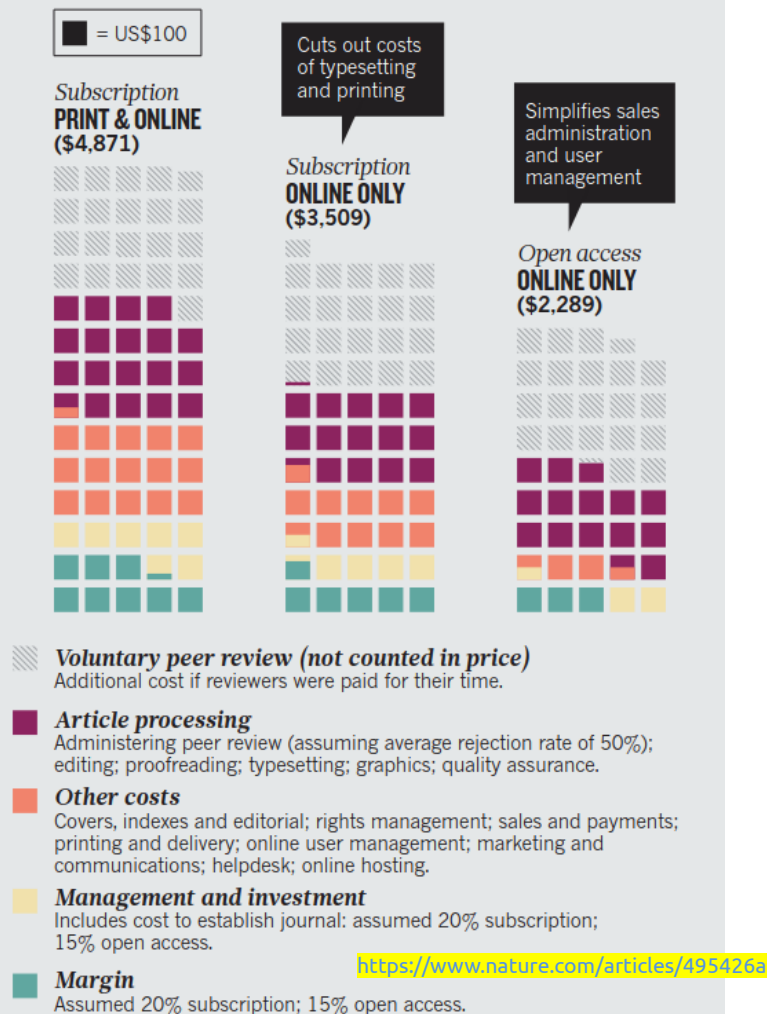


Default: paid individual access, free access via a library, authors transfer copyright to the publisher but pay no APC

Alternative: open-access publishing, where authors retain the copyright, pay the APC or wait out an embargo period, but the publication is free to access to everyone

How costs break down

An economic model shows how switching from subscription to open access changes the costs of publishing.



Default: paid individual access, free access via a library, authors transfer copyright to the publisher but pay no APC

Alternative: open-access publishing, where authors retain the copyright, pay the APC or wait out an embargo period, but the publication is free to access to everyone

"Publish or perish"

Requirements on number of publications
motivate people to artificially inflate
publication numbers

Publisher "About" information is absent on the journal's web site ✓

Publisher direct marketing (i.e., spamming) or other advertising is obtrusive ✓

Instructions to authors information is not available ✓

Information on peer review and copyright is absent or unclear on the journal web site ✓

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No information is provided about the publisher, or the information provided does not clearly indicate a relationship to a mission to disseminate research content ✓

Repeat lead authors in same issue ✓

Publisher has a negative reputation (e.g., documented examples in Chronicle of Higher Education, list-servs, etc.) ✓

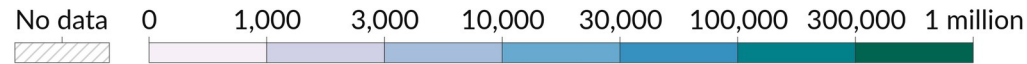
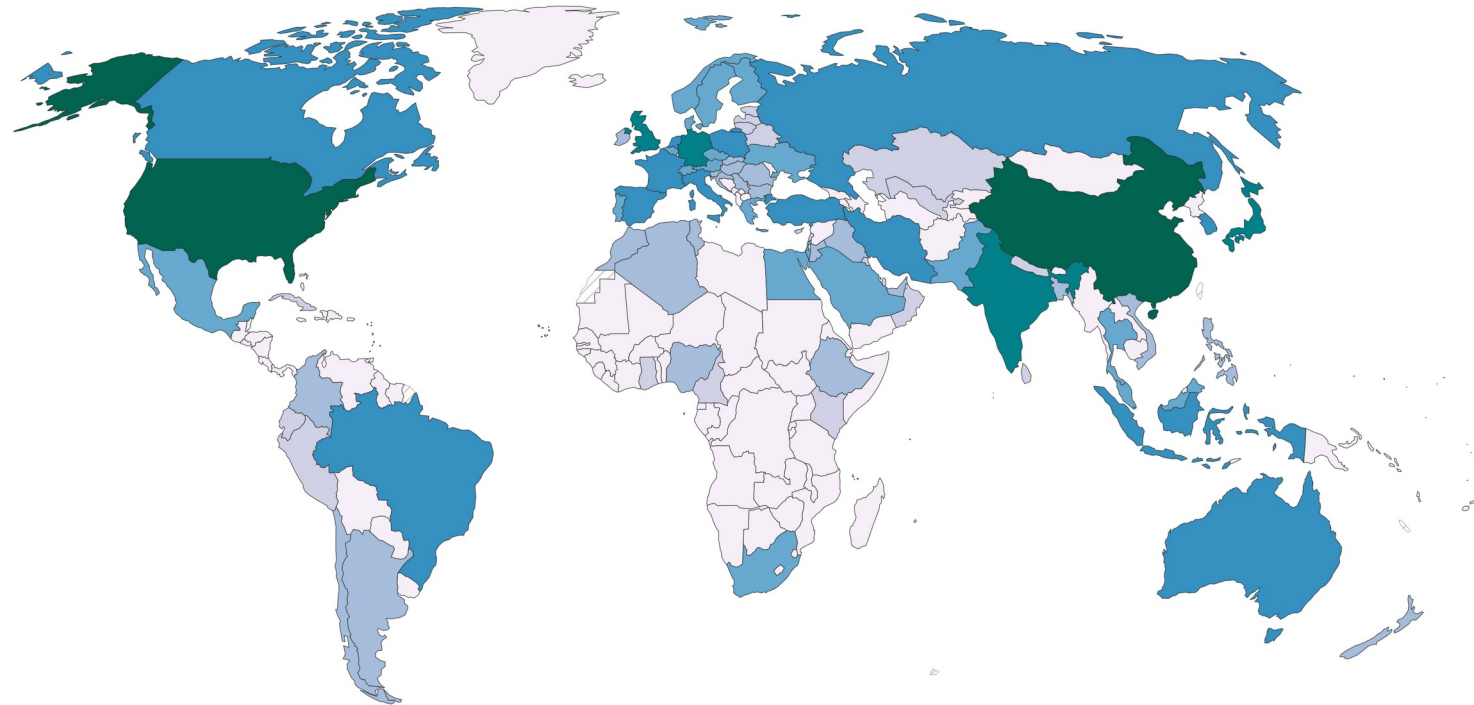


Image: <https://umlibguides.um.edu.my/c.php?g=938956&p=6796235>

Annual articles published in scientific and technical journals, 2020

Our World
in Data

Includes physics, biology, chemistry, mathematics, clinical medicine, biomedical research, engineering and technology, and earth and space sciences.



Data source: National Science Foundation, via World Bank (2025)

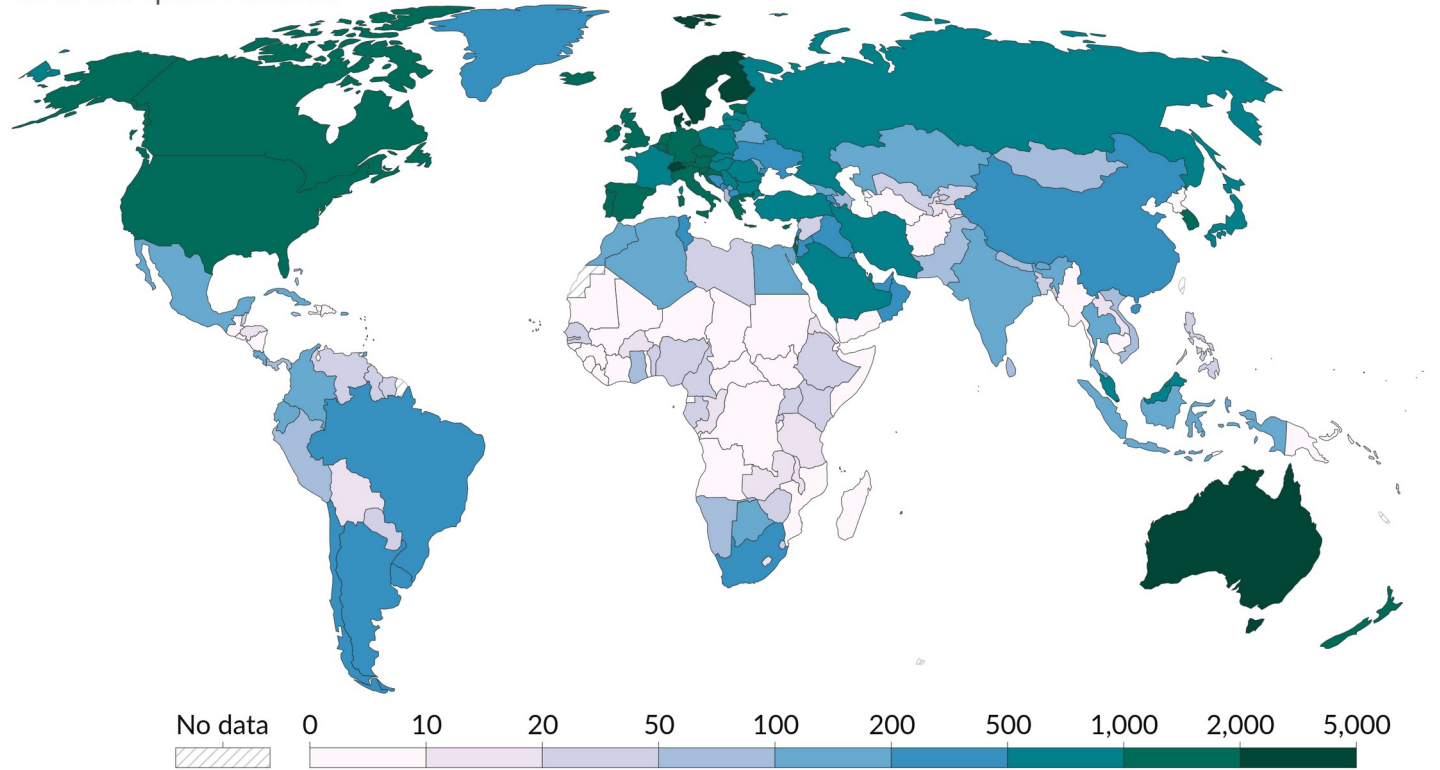
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Note: Articles are counted by the country of the author's institution.

Annual articles published in scientific and technical journals per million people, 2020

Our World
in Data

Includes physics, biology, chemistry, mathematics, clinical medicine, biomedical research, engineering and technology, and earth and space sciences.



Data source: National Science Foundation, via World Bank (2025); United Nations Population Division, Eurostat, national statistical offices, and United Nations Statistics Division, via World Bank (2025)

Note: Articles are assigned based on the country of the first author's institution.

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<https://orbilu.uni.lu/bitstream/10993/60055/1/AndroZooARetrospectiveWithAGlimpseIntoTheFuture.pdf>

ANDROZoo: A Retrospective with a Glimpse into the Future

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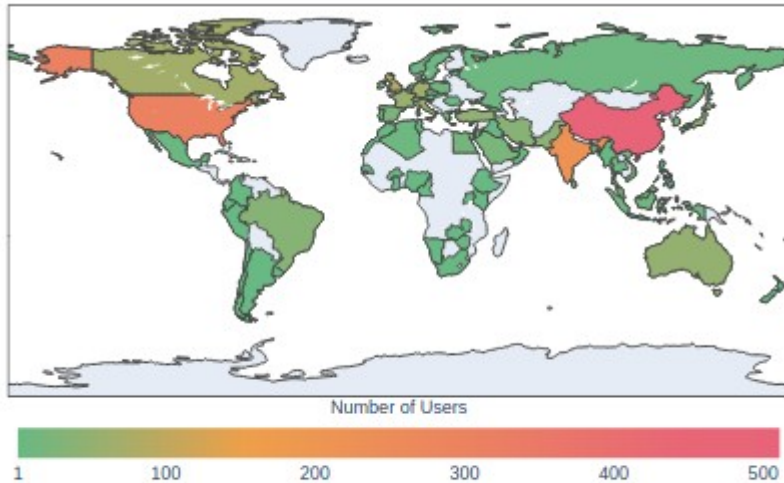




Figure 3: User Distribution across the world





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17:15 5m ☆ **RefExpo: Unveiling Software Project Structures through Advanced Dependency Graph Extraction**

Talk

MSR Data and Tool Showcase Track

Vahid Haratian Bilkent Univeristy, Pouria Derakhshanfar [JetBrains](#) Research, Vladimir Kovalenko JetBrains Research, Eray Tüzün Bilkent University

14:00 - 15:30 **FORGE2025 Keynote at 207**

Chair(s): [Michele Tufano](#) Google

14:00 45m ☆ **Industry Keynote: One shall not live on LLM alone**

Keynote

Darya Rovdo [JetBrains](#)

16:30 5m ☆ **Drawing Pandas: A Benchmark for LLMs in Generating Plotting Code**

Talk

MSR Data and Tool Showcase Track

Timur Galimzyanov [JetBrains](#) Research, Sergey Titov JetBrains Research, Yaroslav Golubev JetBrains Research, Egor Bogomolov JetBrains Research

[Pre-print](#)

16:00 - 17:30 **Process at 203**

New Ideas and Emerging Results (NIER) / Journal-first Papers / Research Track / SE In Practice (SEIP)

Chair(s): [Luigi Benedicenti](#) University of New Brunswick

16:00 15m ☆ **Full Line Code Completion: Bringing AI to Desktop**

SE In Practice (SEIP)

Anton Semekin [JetBrains](#), Vitaliy Bibaev JetBrains, Yaroslav Sokolov JetBrains, Kirill Krylov JetBrains, Alexey Kalina JetBrains, Anna Khannanova JetBrains, Danila Savenkov JetBrains, Darya Rovdo JetBrains, Igor Davidenko JetBrains, Kirill Kamaukhov JetBrains, Maxim Vakhrushev JetBrains, Mikhail Kostyukov JetBrains, Mikhail Podvitski JetBrains, Petr Surkov JetBrains, Yaroslav Golubev JetBrains Research, Nikita Povarov JetBrains, Timofey Bryksin JetBrains Research

[Pre-print](#)

16:30 15m ☆ **Towards Realistic Evaluation of Commit Message Generation by Matching Online and Offline Settings**

SE In Practice (SEIP)

Petr Tsvetkov [JetBrains](#) Research, Aleksandra Eliseeva JetBrains Research, Danny Dig University of Colorado Boulder, JetBrains Research, Alexander Bezzubov JetBrains, Yaroslav Golubev JetBrains Research, Timofey Bryksin JetBrains Research, Yaroslav Zharov JetBrains Research

[Pre-print](#)



ICSE 2025
47th International Conference
on Software Engineering

Sun 27 April - Sat 3 May 2025

Ottawa, Ontario, Canada

11:00 - 12:30 **Session 1: Visions of the future, & Session 2: Diversity of environments at 205**

IDE

Chair(s): [Carolyn Brandt](#) TU Delft, [Danny Dig](#) University of Colorado Boulder, JetBrains Research

11:00–11:45 — Session 1. Visions of the future.

11:45–12:30 — Session 2. Diversity of environments.

11:00 15m ☆ **In-IDE Programming Courses: Learning Software Development in a Real-World Setting**

Talk

Anastasia Birilo [JetBrains](#) Research, Ilya Vlasov JetBrains Research, Katsiaryna Dzialets JetBrains, Hieke Keuning Utrecht University, Timofey Bryksin JetBrains Research

[Pre-print](#)

14:00 - 15:30 **Session 3: Refactoring & AI, & Session 4: Plugins and applications at 205**

Chair(s): [Danny Dig](#) University of Colorado Boulder, [JetBrains](#) Research, [Darya Rovdo](#) JetBrains

14:00–14:45 — Session 3. Refactoring and AI.

14:45–15:30 — Session 4. Plugins and applications.

12:15 15m ☆ **Evolving the Computational Notebook: A Two-Dimensional Canvas for Enhanced Human-AI Interaction**

Talk

Konstantin Grotov [JetBrains](#) Research, Constructor University, Dmitry Botov Neapolis University Paphos

[Pre-print](#)

09:00 - 10:30 **Opening & Keynotes at 205**

Chair(s): [Danny Dig](#) University of Colorado Boulder, JetBrains Research

09:00 10m ☆ **Welcoming Message by Organizers**

Day opening

[Danny Dig](#) University of Colorado Boulder, [JetBrains](#) Research

09:10 40m ☆ **Time Travel with IDEs: From Line Editors to AI Copilots**

Keynote

Dave Thomas Bedarra Corp

09:50 40m ☆ **AI Agents Inside the IDE: Possibilities and Practice**

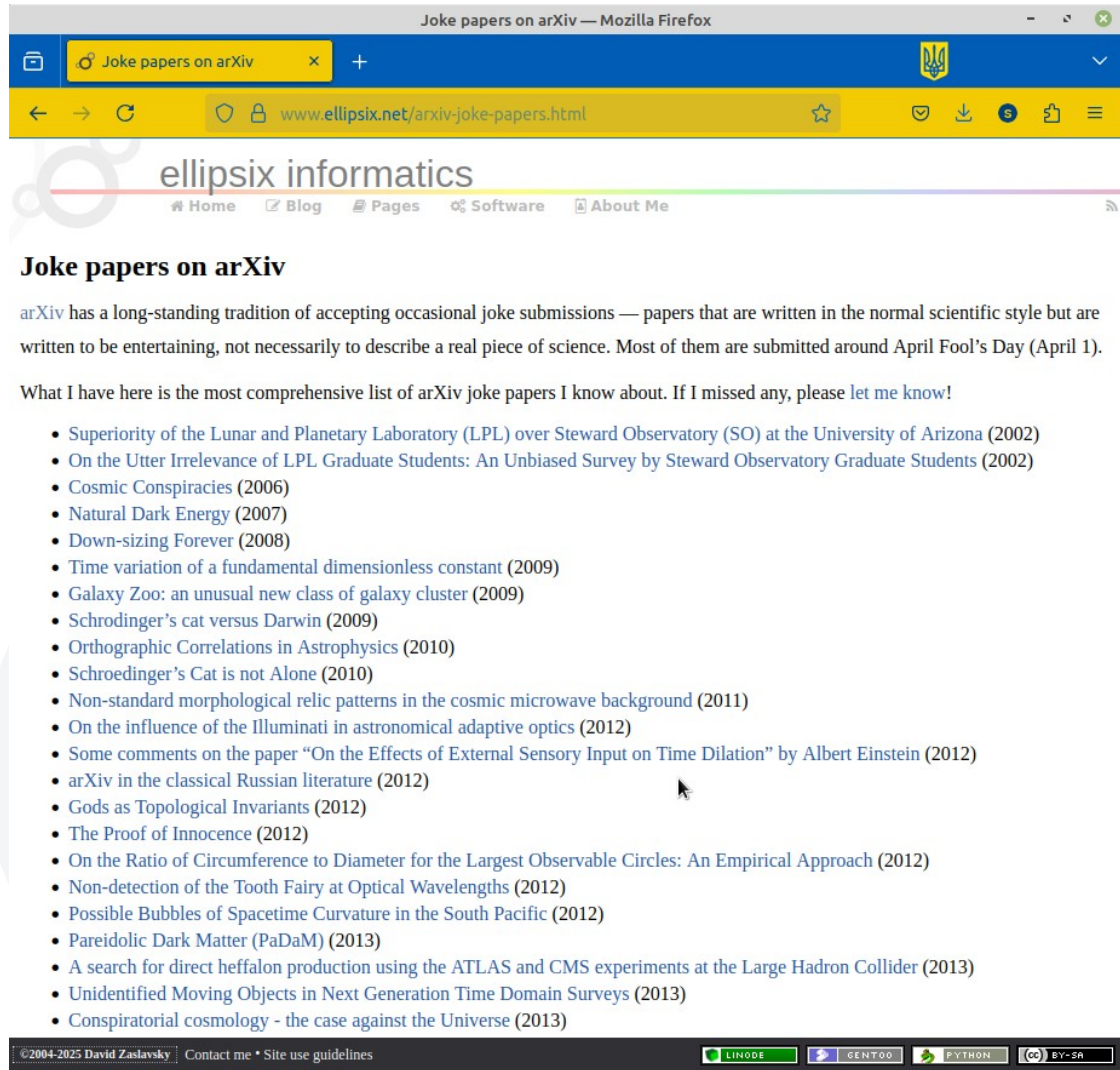
Keynote

Yaroslav Zharov JetBrains Research

16:40 10m ☆ **YABLoCo: Yet Another Benchmark for Long Context Code Generation (Virtual Talk)**

Talk

Aldar Valeev Innopolis University, Vladimir Ivanov Innopolis University, Roman Garaev Innopolis University, Vadim Lomshakov [JetBrains](#), Irina Pionkovskaya Huawei Noah's Ark Lab, Israel Adewuyi Innopolis University



The screenshot shows a Mozilla Firefox browser window with the title "Joke papers on arXiv". The address bar displays "www.ellipsisx.net/arxiv-joke-papers.html". The website header features the "ellipsisx informatics" logo and a navigation menu with links to Home, Blog, Pages, Software, and About Me. The main content area is titled "Joke papers on arXiv" and contains a paragraph explaining that arXiv has a tradition of accepting occasional joke submissions. Below this, a list of 20 joke papers is provided, each with a title and year. The footer includes a copyright notice for David Zaslavsky, contact information, and various software logos like LINODE, GENTOO, PYTHON, and BY-SA.

Joke papers on arXiv

arXiv has a long-standing tradition of accepting occasional joke submissions — papers that are written in the normal scientific style but are written to be entertaining, not necessarily to describe a real piece of science. Most of them are submitted around April Fool's Day (April 1).

What I have here is the most comprehensive list of arXiv joke papers I know about. If I missed any, please [let me know!](#)

- Superiority of the Lunar and Planetary Laboratory (LPL) over Steward Observatory (SO) at the University of Arizona (2002)
- On the Utter Irrelevance of LPL Graduate Students: An Unbiased Survey by Steward Observatory Graduate Students (2002)
- Cosmic Conspiracies (2006)
- Natural Dark Energy (2007)
- Down-sizing Forever (2008)
- Time variation of a fundamental dimensionless constant (2009)
- Galaxy Zoo: an unusual new class of galaxy cluster (2009)
- Schrodinger's cat versus Darwin (2009)
- Orthographic Correlations in Astrophysics (2010)
- Schroedinger's Cat is not Alone (2010)
- Non-standard morphological relic patterns in the cosmic microwave background (2011)
- On the influence of the Illuminati in astronomical adaptive optics (2012)
- Some comments on the paper "On the Effects of External Sensory Input on Time Dilation" by Albert Einstein (2012)
- arXiv in the classical Russian literature (2012)
- Gods as Topological Invariants (2012)
- The Proof of Innocence (2012)
- On the Ratio of Circumference to Diameter for the Largest Observable Circles: An Empirical Approach (2012)
- Non-detection of the Tooth Fairy at Optical Wavelengths (2012)
- Possible Bubbles of Spacetime Curvature in the South Pacific (2012)
- Pareidolic Dark Matter (PaDaM) (2013)
- A search for direct heffalon production using the ATLAS and CMS experiments at the Large Hadron Collider (2013)
- Unidentified Moving Objects in Next Generation Time Domain Surveys (2013)
- Conspiratorial cosmology - the case against the Universe (2013)

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