「次世代CiNii」の展望:オープンサイエンスを支える学術情報サービス

海外の最新動向とこれから目指すもの

加藤文彦
国立情報学研究所 オープンサイエンス基盤研究センター
図書館総合展2017 NIIフォーラム
2017-11-07

大学共同利用機関法人 情報・システム研究機構
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オープンサイエンス時代の検索とは?

- 研究活動や成果物の多様化
  - 論文，雑誌，書籍，研究者，データ，ソフトウェア，プレプリント，ファンド，研究計画，データ管理計画，発表資料，ポスター，…
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    - 図・テーブル等抽出
  - 新しい結果の発見と通知
  - キュレーション
  - サービス連携
  - 統計や可視化
  - Altmetrics

海外事例

NII

- SHARE
- OpenAIRE
- Open Knowledge Maps
- ScienceOpen
- Semantic Scholar

SHARE

NII

- アメリカやカナダの各協会(ARL, AAU, APLU)
  - 目的: 研究成果の共有，公開，保存
- OSFと協業
- SHARE 2.0
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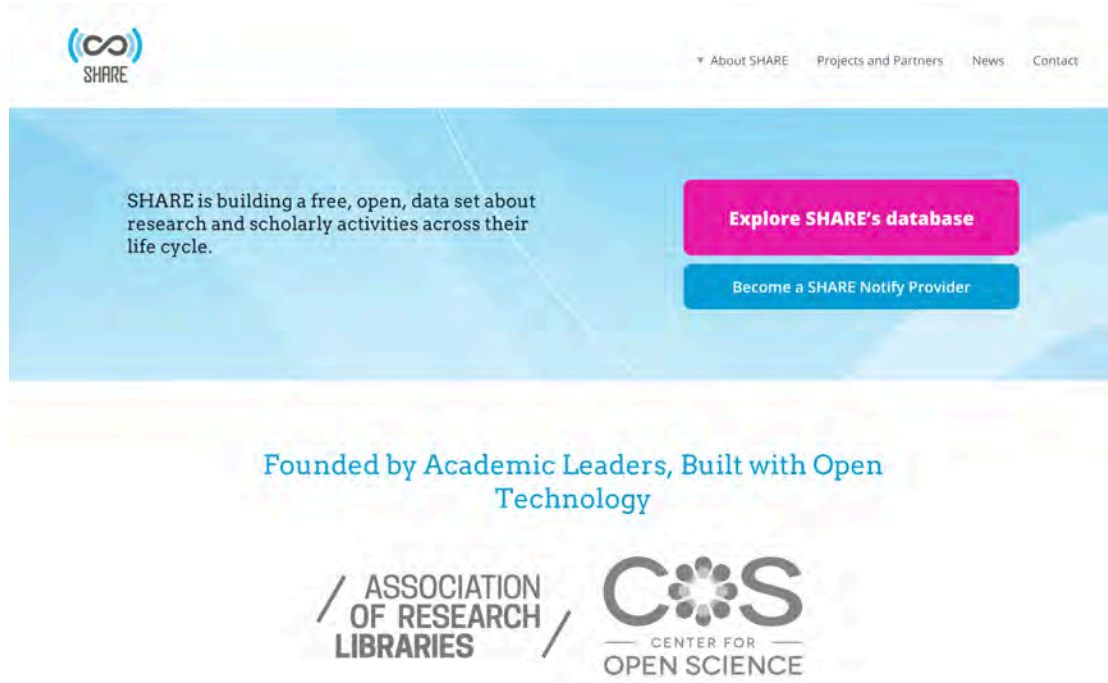

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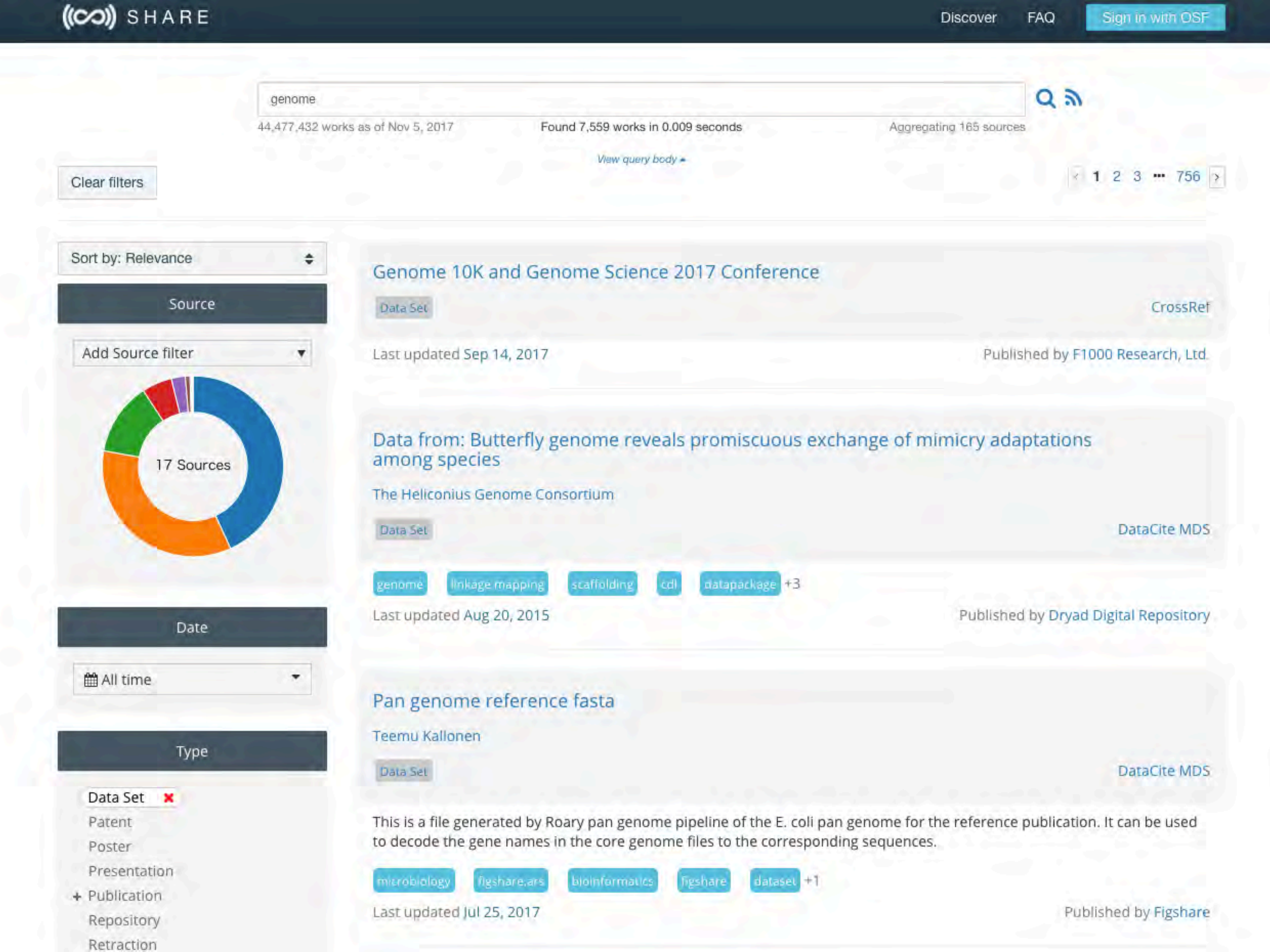
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21815 contributions

SHARE Joint Working Group

Celeste, Braswell, Sallans & 4 more

24 contributions

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43 contributions

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Braswell, Spies, von Feilitzsch & 5 more

136 contributions

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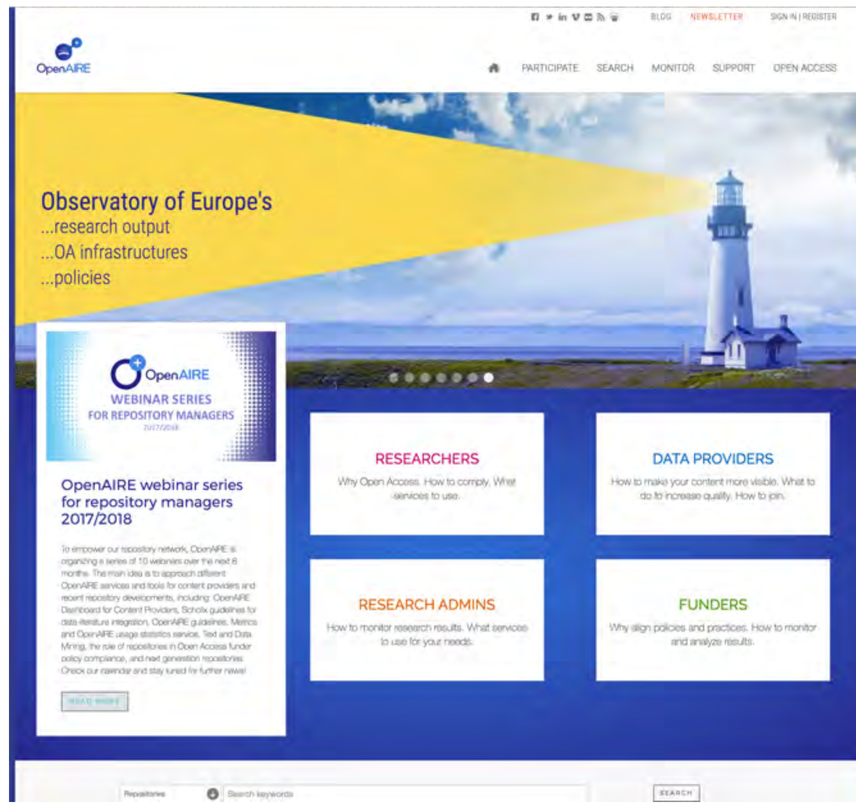

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Publisher: Figshare

Visualization scores.

Example Bam File For Galaxy Visualization Development Tutorial

IUC (2017)
Publisher: Zenodo

An example BAM file that can be used for the tutorial on visualization plugin development in Galaxy.

MetaSee: An Interactive and Extendable Visualization Toolbox for Metagenomic Sample Analysis and Comparison

Song, Baoxing; Su, Xiaoquan; Xu, Jian; Ning, Kang (2012)
Publisher: Figshare

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Recent Advances in Endodontic Visualization: A Review

Iosr Journals; Dr. Anil Dhingra1 , Dr. Nidhi Nagar (2014)
Publisher: Figshare

Interactive 3D visualization of an astrolabe

Nagel, D.; Cocquyt, T.
Publisher: Data Archiving and Networked Services (DANS)

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Type: dataset

Subjects: Medicine, Cell Biology, Neuroscience, Biotechnology, Cancer, comprehensive mr urography protocol, upper urinary tract, visualization, 3.0 t-mru, intrarenal cavity areas, ctu, uut, triple-phase ct urography objectives, good diagnostic performance, wilcoxon matched-pairs test, performance, conclusions comprehensive 3.0 t-mru, nct

Identifiers: doi:10.1371/journal.pone.0158673.t002

Visualization scores.

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INFERRED PUBLICATIONS

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Title	Year	Trust
Comprehensive MR Urography Protocol: Equally Good Diagnostic Performance and Enhanced Visibility of the Upper Urinary Tract Compared to Triple-Phase CT Urography	-	73%

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Comprehensive MR Urography Protocol: Equally Good Diagnostic Performance and Enhanced Visibility of the Upper Urinary Tract Compared to Triple-Phase CT Urography

Mazen Sudah; Amro Masarwah; Sakari Kainulainen; Marja Pitkänen; Hanna Matikka; Vaiva Dabravolskaite; Sirpa Aaltomaa; Ritva Vanninen (2016)

Publisher: Public Library of Science

Journal: PLoS ONE

Languages: English

Types: Article

Subjects: Magnetic Resonance Imaging, Research Article, Diagnostic Medicine, Anatomy, Pelvis, Diagnostic Radiology, Radiology and Imaging, Oncology, Tomography, Cancer Detection and Diagnosis, Malignant Tumors, Cancers and Neoplasms, Biology and Life Sciences, Ureter, Neuroscience, Research and Analysis Methods, Musculoskeletal System, Medicine, Neuroimaging, Q, R, Imaging Techniques, Computed Axial Tomography, Science, Medicine and Health Sciences, Renal System

Identifiers: pmc:PMC4934766, doi:10.1371/journal.pone.0158673

Objectives To prospectively compare the diagnostic performance and the visualization of the upper urinary tract (UUT) using a comprehensive 3.0T- magnetic resonance urography (MRU) protocol versus triple-phase computed tomography urography (CTU). Methods During the study period (January-2014 through December-2015), all consecutive patients in our tertiary university hospital scheduled by a urologist for CTU to exclude UUT malignancy were invited to participate. Diagnostic performance and visualization scores of 3.0T-MRU were compared to CTU using Wilcoxon matched-pairs test. Results Twenty patients (39 UUT excreting units) were evaluated. 3.0T-MRU and CTU achieved equal diagnostic performances. The benign etiology of seven UUT obstructions was clarified equally with both methods. Another two urinary tract malignant tumors and one benign extraurinary tumor were detected and confirmed. Diagnostic visualization was slightly better in the intrarenal cavity areas with CTU but worsened towards distal ureter. MRU showed consistently slightly better visualization of the ureter. In the comparison, full 100% visualizations were detected in all areas in 93.6% (with 3.0T-MRU) and 87.2% (with CTU) and >75% visualization in 100% (3.0T-MRU) and 93.6% (CTU). Mean CTU effective radiation dose was 9.2 mSv. Conclusions Comprehensive 3.0T-MRU is an accurate imaging modality achieving comparable performance with CTU; since it does not entail exposure to radiation, it has the potential to become the primary investigation technique in selected patients. Trial Registration ClinicalTrials.gov NCT02606513

INFERRED RESEARCH DATA

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Title	Trust
Diameter measurement of the renal pelvis and ureter. (2016)	73%
Percentage visualization of the upper urinary tract. (2016)	73%
Visualization scores.	[illegible]

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Comprehensive MR Urography Protocol: Equally Good Diagnostic Performance and Enhanced Visibility of the Upper Urinary Tract Compared to Triple-Phase CT Urography

Table 2

Visualization scores.

Area	Comparison between methods												Comparison between readers					
	CT1	MR3	*p*	CT1	MR4	*p*	CT2	MR3	*p*	CT2	MR4	*p*	CT1	CT2	*p*	MR3	MR4	*p*
A	5.48	5.78	.014	5.48	5.73	.012	5.88	5.78	.046	5.88	5.73	.014	5.48	5.88	<.0001	5.78	5.73	.527
B	5.55	5.68	.225	5.55	5.73	.071	5.88	5.68	.005	5.88	5.73	.014	5.55	5.88	.001	5.68	5.73	.593
C	5.63	5.82	.052	5.63	5.73	.206	5.75	5.82	.317	5.75	5.73	.705	5.63	5.75	.025	5.82	5.73	.157
D	5.08	5.88	<.0001	5.08	5.75	.001	5.5	5.88	.066	5.5	5.75	.254	5.08	5.5	<.0001	5.88	5.75	.025
E	5.05	5.88	<.0001	5.05	5.75	<.0001	5.28	5.88	.011	5.28	5.75	.035	5.05	5.28	.019	5.88	5.75	.025
F	4.48	5.85	<.0001	4.48	5.78	<.0001	5.3	5.85	.001	5.3	5.78	.003	4.48	5.3	<.0001	5.85	5.78	0.18

Mean visualization scores of the upper urinary tract (UUT) as evaluated by four observers and their significance values in the comparison of the performance of computed CT urography and MR urography (whole examination at different time intervals jointly analyzed). Opacification at CT urography and diagnostic visualization at MR urography were scored into 6 categories: Score 1 = 0% visualization; 2 = 1–25%; 3 = 26–50%; 4 = 51–75%; 5 = 76–99% and 6 = 100% for each anatomical area (A-F) separately.

Areas: A = Upper cavities; B = Middle and Lower cavities; C = Renal pelvis; D = Ureter, proximal third; E = Ureter, middle third; F = Ureter, lower third.

CT1 = CT first observer; CT2: CT second observer; MR3: MR third observer; MR4: MR fourth observer

doi:10.1371/journal.pone.0158673.t002

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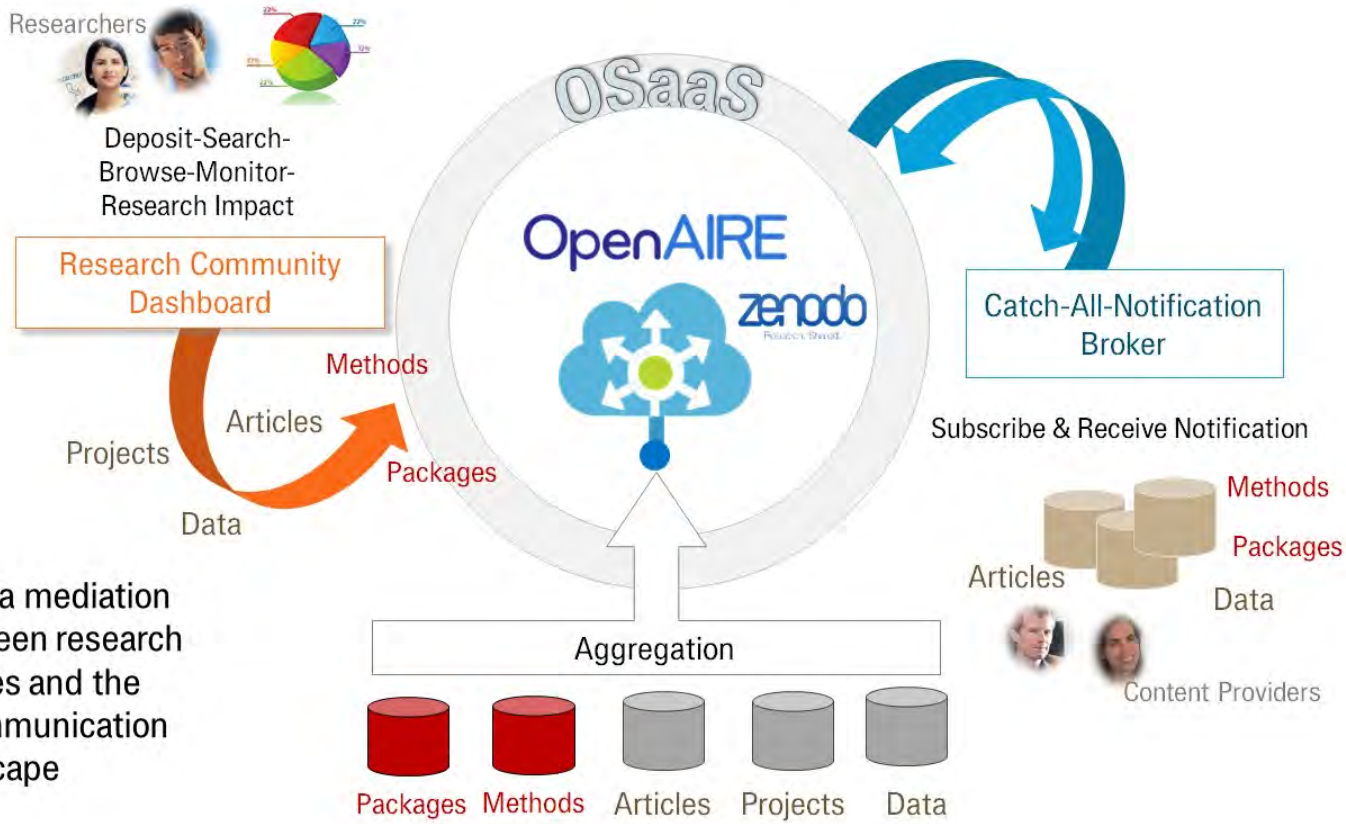

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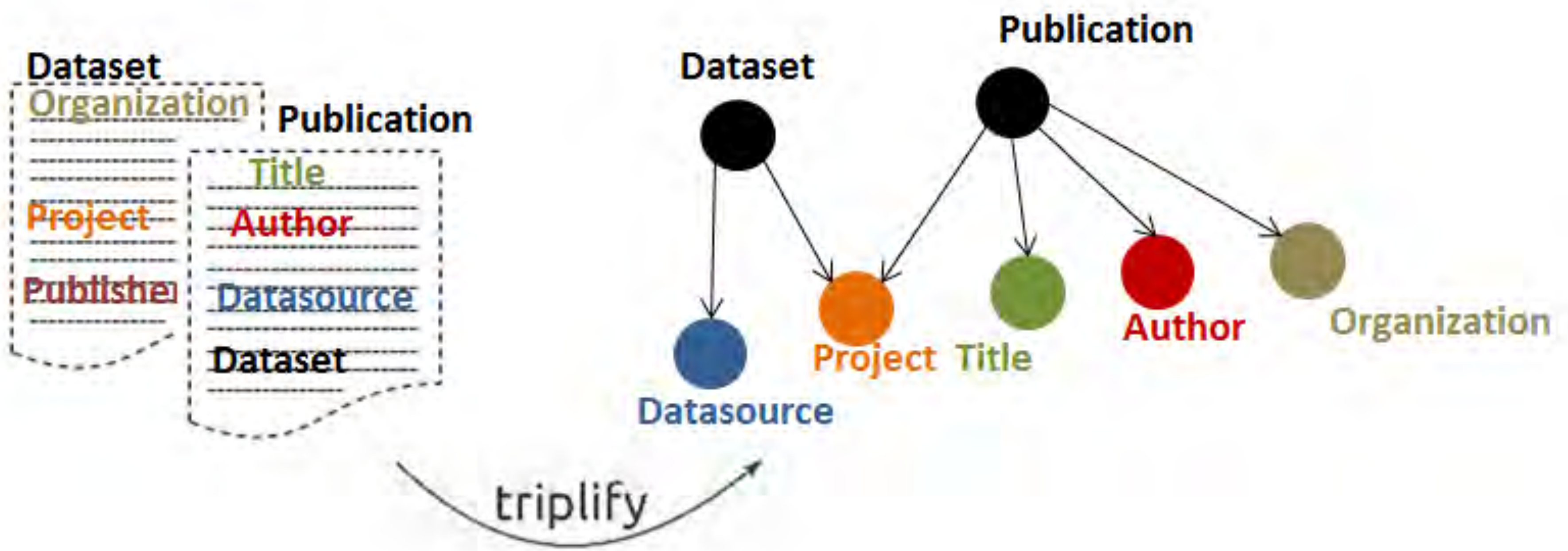

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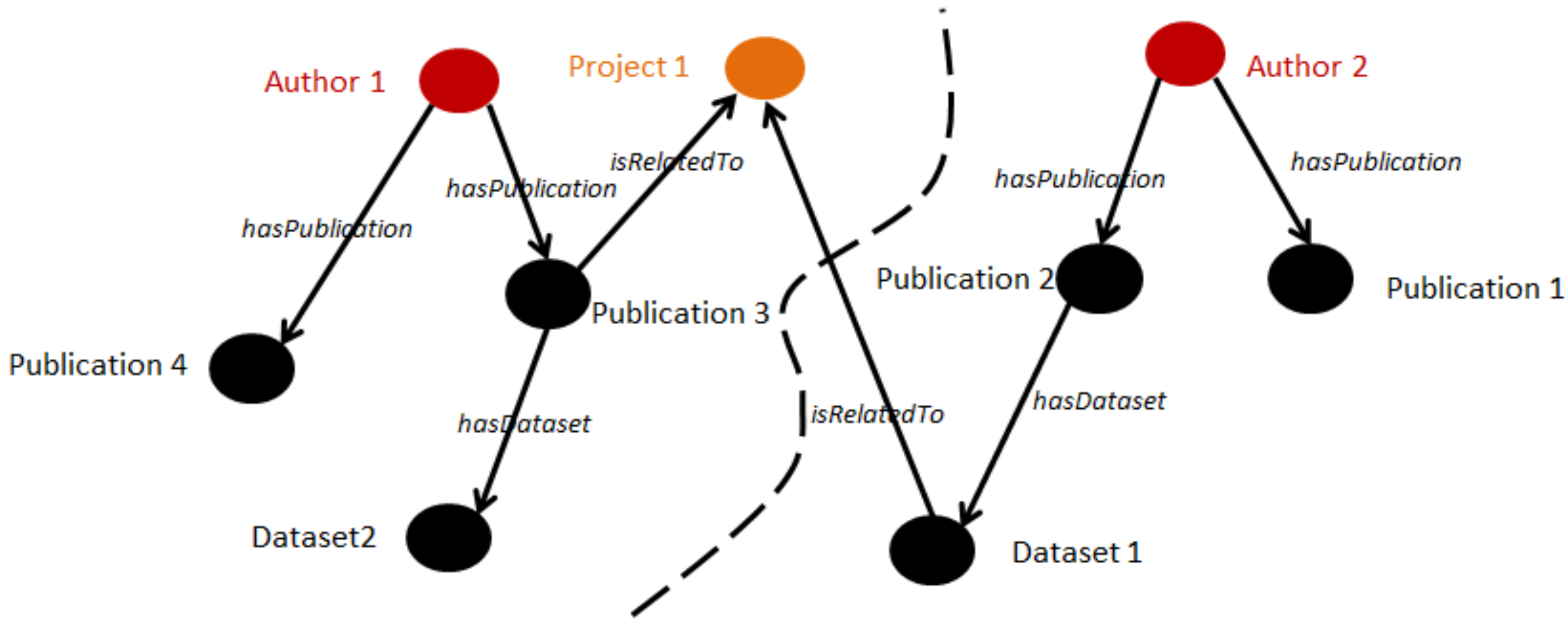

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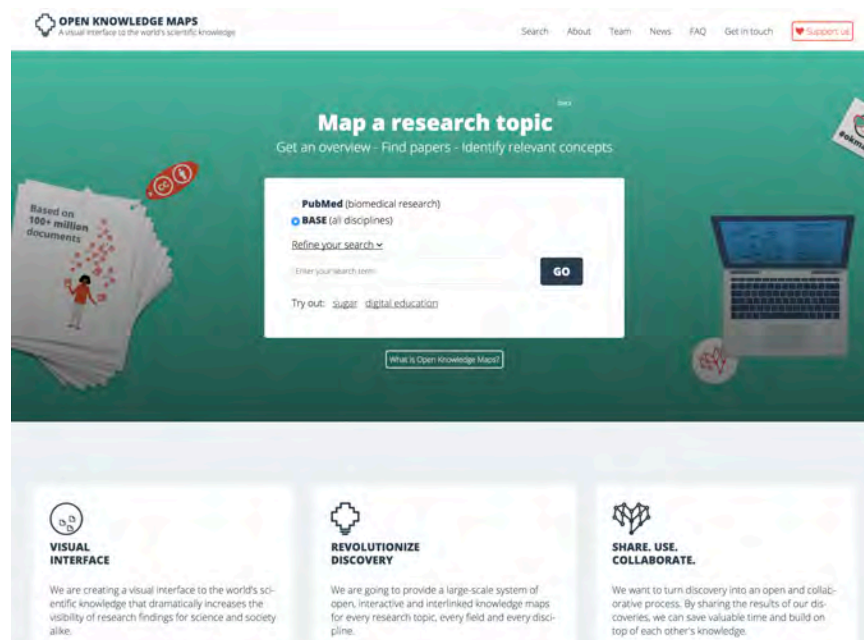

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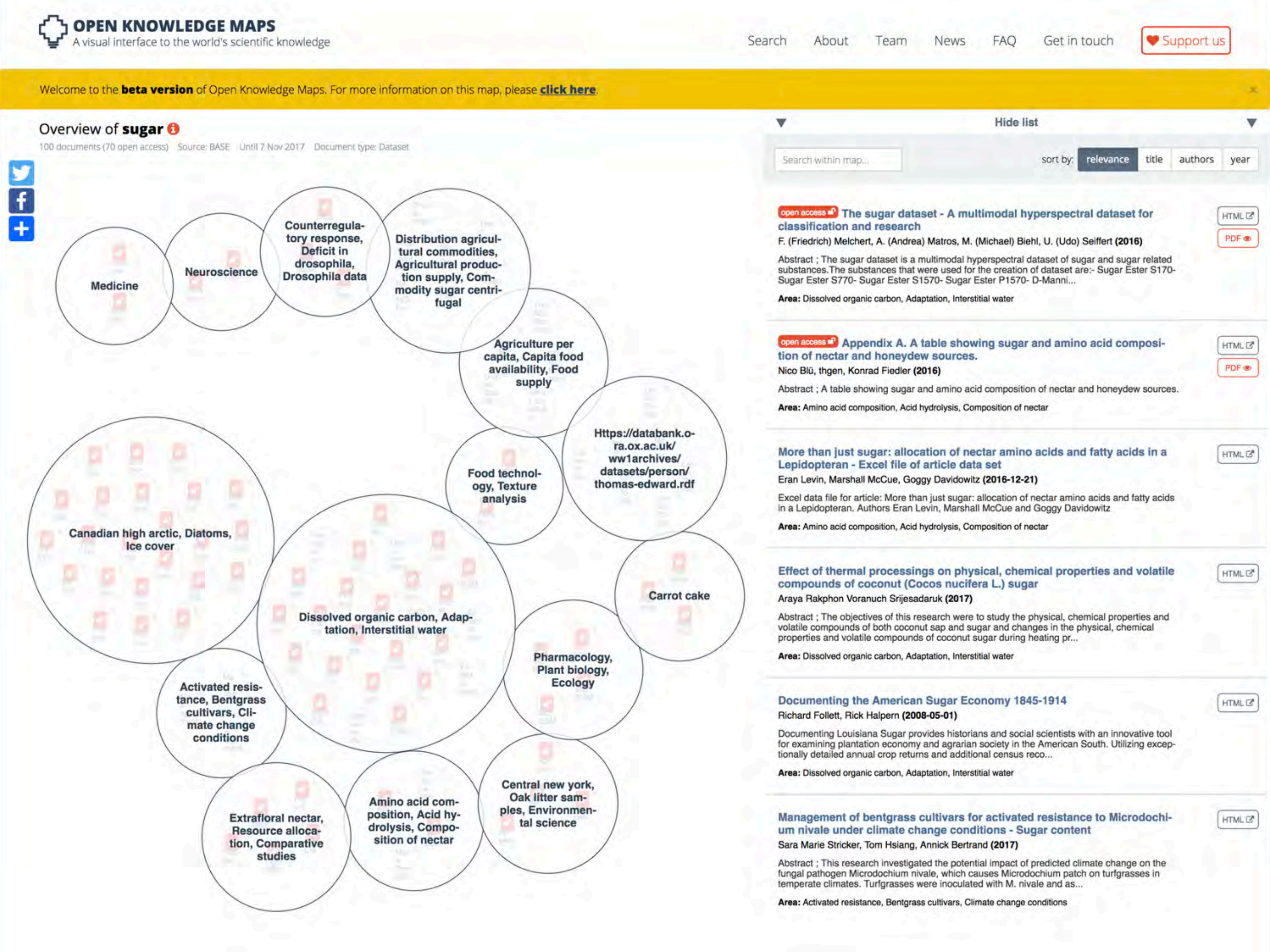
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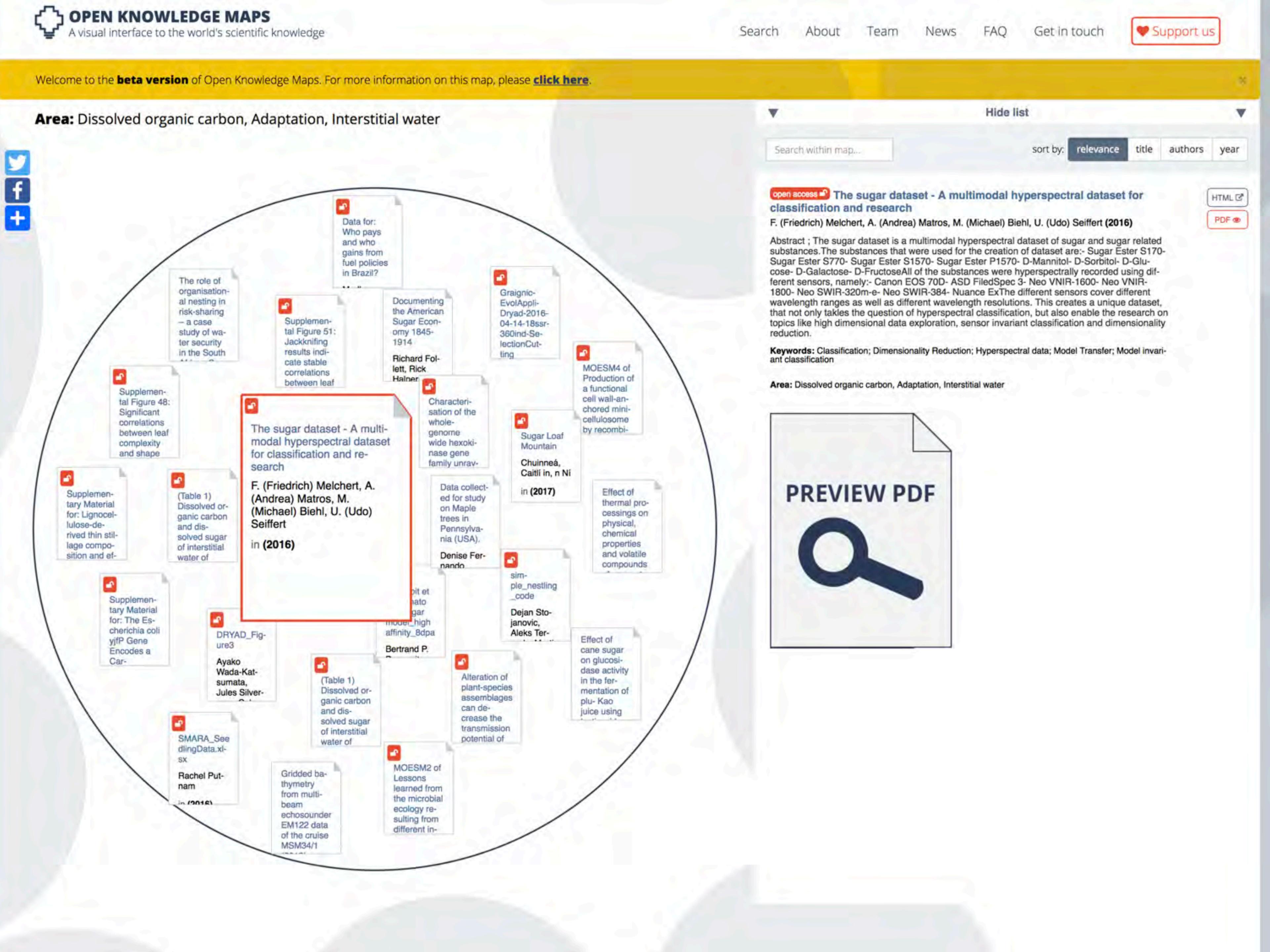
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F. (Friedrich) Melchert, A. (Andrea) Matros, M. (Michael) Biehl, U. (Udo) Seiffert (2016)
Abstract ; The sugar dataset is a multimodal hyperspectral dataset of sugar and sugar related substances.The substances that were used for the creation of dataset are:- Sugar Ester S170- Sugar Ester S770- Sugar Ester S1570- Sugar Ester P1570- D-Mannitol- D-Sorbitol- D-Glu-cose- D-Galactose- D-FructoseAll of the substances were hyperspectrally recorded using dif-ferent sensors, namely:- Canon EOS 70D- ASD FiledSpec 3- Neo VNIR-1600- Neo VNIR-1800- Neo SWIR-320m-e- Neo SWIR-384- Nuance ExThe different sensors cover different wavelength ranges as well as different wavelength resolutions. This creates a unique dataset, that not only takles the question of hyperspectral classification, but also enable the research on topics like high dimensional data exploration, sensor invariant classification and dimensionality reduction.
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F. (Friedrich) Melchert, A. (Andrea) Matros, M. (Michael) Biehl, U. (Udo) Seiffert
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Sugar Loaf Mountain
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Supplemen-tary Material for: Lignocel-lulose-de-rived thin stil-lage compo-sition and ef-
(Table 1) Dissolved or-ganic carbon and dis-solved sugar of interstitial water of
Data collect-ed for study on Maple trees in Pennsylva-nia (USA).
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creator	orcid *Melchert, F. (Friedrich)*
creator	*Matros, A. (Andrea)*
creator	*Biehl, M. (Michael)*
creator	*Seiffert, U. (Udo)*
contributor	Fraunhofer Institute for Factory Operation and Automation IFF, Magdeburg, Germany
contributor	Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben, Germany
contributor	University of Groningen, Johann Bernoulli Institute for Mathematics and Computer Science, Groningen, The Netherlands
date accepted	2016-06-30
date created	2016-03-14 through 2016-06-22
date published	2016
description	The sugar dataset is a multimodal hyperspectral dataset of sugar and sugar related substances. The substances that were used for the creation of dataset are: - Sugar Ester S170 - Sugar Ester S770 - Sugar Ester S1570 - Sugar Ester P1570 - D-Mannitol - D-Sorbitol - D-Glucose - D-Galactose - D-Fructose All of the substances were hyperspectrally recorded using different sensors, namely: - Canon EOS 70D - ASD FiledSpec 3 - Neo VNIR-1600 - Neo VNIR-1800 - Neo SWIR-320m-e - Neo SWIR-384 - Nuance Ex The different sensors cover different wavelength ranges as well as different wavelength resolutions. This creates a unique dataset, that not only takles the question of hyperspectral classification, but also enable the research on topics like high dimensional data exploration, sensor invariant classification and dimensionality reduction.
language	en
publisher	University of Groningen
subject	Classification • Dimensionality Reduction • Hyperspectral data • Model invariant classification • Model Transfer
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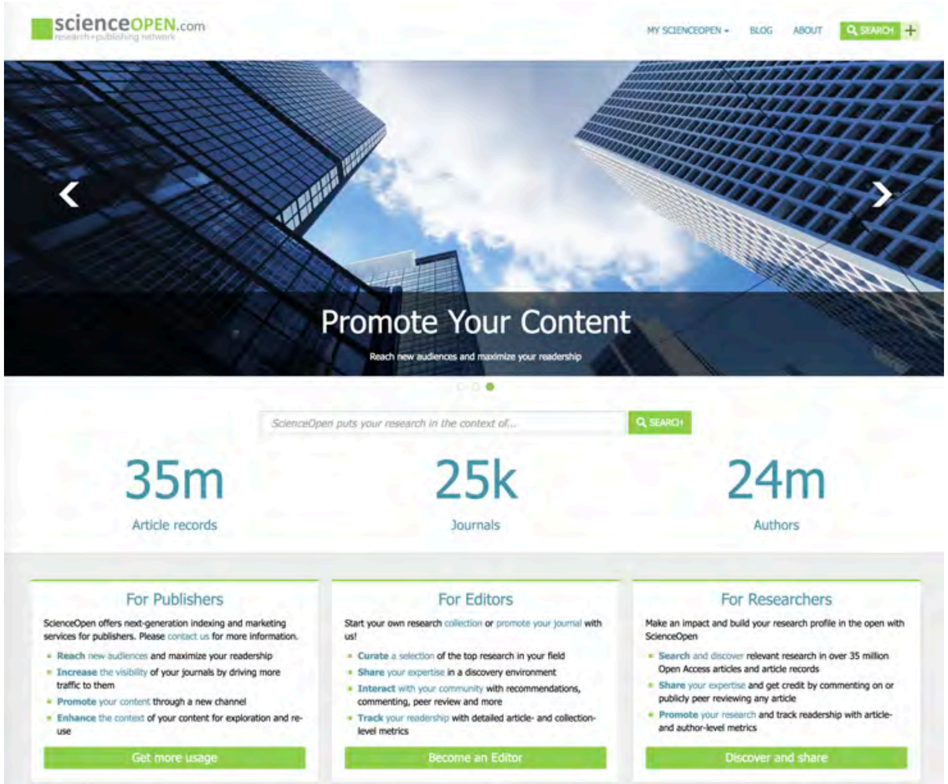

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More than 75 percent decline over 27 years in total flying insect biomass in protected areas

Caspar A Hallmann, Martin Sorg, Eelke Jongejans, Henk Siepel, Nick Hofland, 7 more... (2017)

Global declines in insects have sparked wide interest among scientists, politicians, and the general public. Loss of insect diversity and abundance is expected to provoke cascading effects on food webs and to jeopardize ecosystem services. Ou Show more

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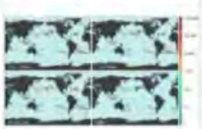
Marcus Eriksen, Laurent C. M. Lebreton, Henry Carson, Martin Thiel, Charles J. Moore, 4 more... (2014)

Plastic pollution is ubiquitous throughout the marine environment, yet estimates of the global abundance and weight of floating plastics have lacked data, particularly from the Southern Hemisphere and remote regions. Here we report an esti Show more



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Stefania Vitali, James B. Glattfelder, Stefano Battiston (2011)

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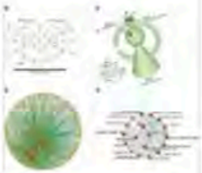

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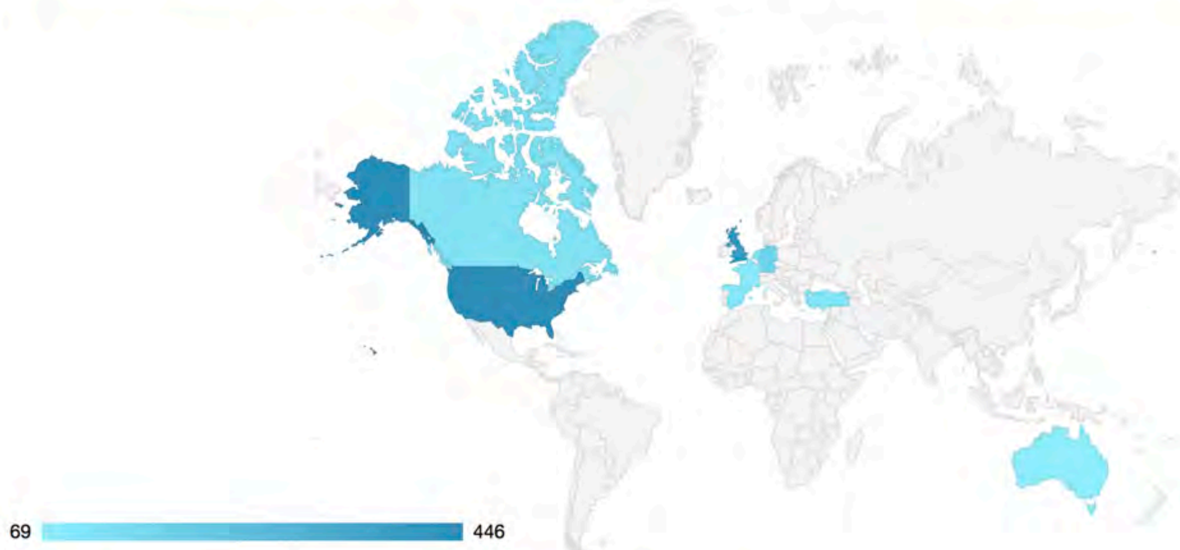

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Finding melanoma drugs through a probabilistic knowledge graph

James McCusker, Michel Dumontier, Rui Yan, Sylvia He, Jonathan S Dordick, 2 more... (2017)

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Tobias Kuhn, Christine Chichester, Michael Krauthammer, Núria Queralt-Rosinach, Ruben Verborgh, 5 more... (2016)

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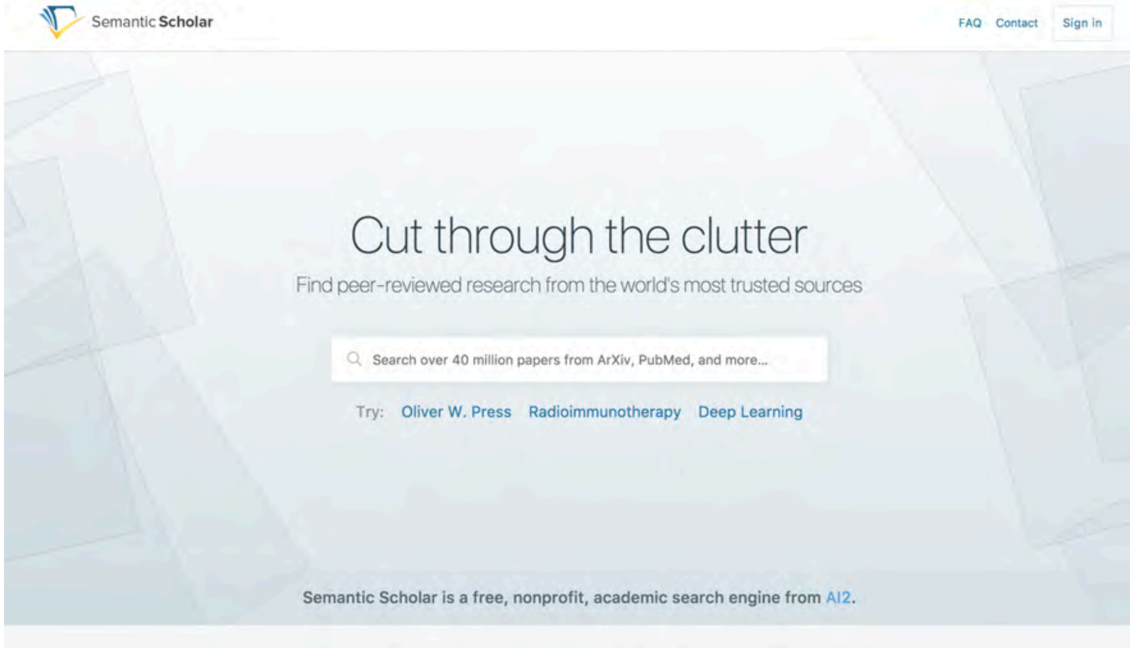

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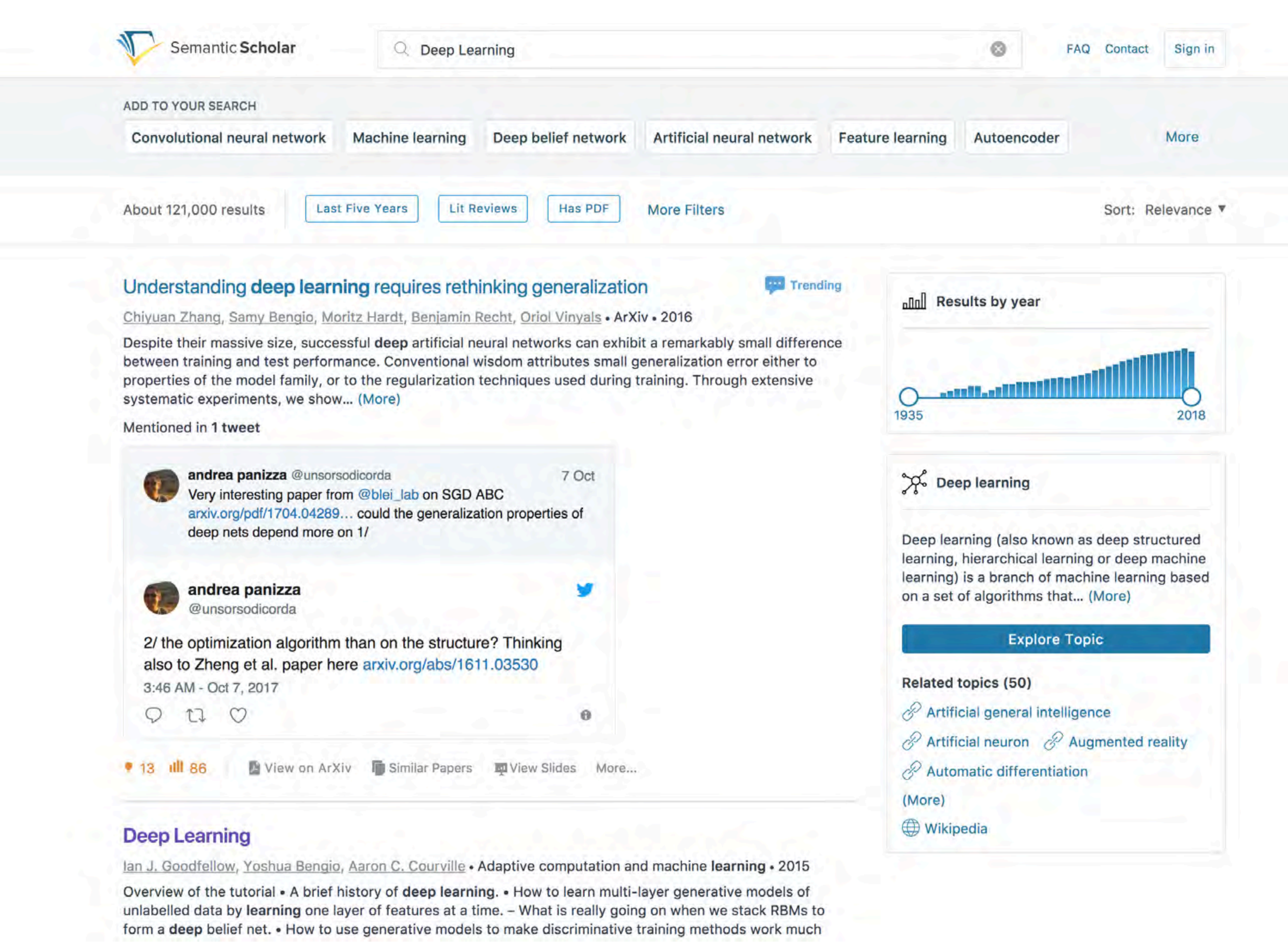
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Understanding deep learning requires rethinking generalization

Chiyuan Zhang, Samy Bengio, Moritz Hardt, Benjamin Recht, Oriol Vinyals

Published 2016 in ArXiv

Abstract

Despite their massive size, successful deep artificial neural networks can exhibit a remarkably small difference between training and test performance. Conventional wisdom attributes small generalization error either to properties of the model family, or to the regularization techniques used during training. Through extensive systematic experiments, we show how these traditional approaches fail to explain why large neural networks generalize well in practice. Specifically, our experiments establish that state-of-the-art convolutional networks for image classification trained with stochastic gradient methods easily fit a random labeling of the training data. This phenomenon is qualitatively unaffected by explicit regularization, and occurs even if we replace the true images by completely unstructured random noise. We corroborate these experimental findings with a theoretical construction showing that simple depth two neural networks already have perfect finite sample expressivity as soon as the number of parameters exceeds the number of data points as it usually does in practice. We interpret our experimental findings by comparison with traditional models.

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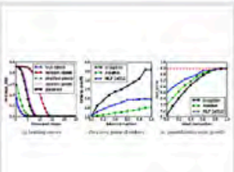

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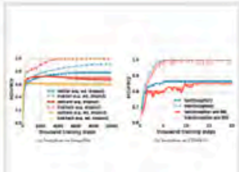

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Table 2

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