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Challenges of ORD storage and computing

Paweł Lubomski, Michał Nowacki

EOSC Festival – the National Tripartite Event Poland

October 25, 2022

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dr inż. Tomasz Maria Boiński

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 Deputy Head of Department at [Department of Computer Architecture](#)

Research fields

Crowdsourcing

Games With A Purpose

Heuristic Results Verification

Mappings Creation And Verification

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Publication showcase

[Active Learning Based on Crowdsourced Data](#)

T. N. Boiński (formerly: T. Boiński), J. Szymański, A. Gruzewicz - *Applied Sciences* - 2022

The paper proposes a crowdsourcing-based approach for annotated data acquisition and means to support Active Learning training approach. In the proposed solution, aimed at data engineers, the knowledge of the crowd serves as an oracle that is able to judge whether the given sample is informative or not. The proposed solution reduces the amount of work needed to annotate large sets of data. Furthermore, it allows a perpetual increase...

[Full text available](#)

[Optimization of Data Assignment for Parallel Processing in a Hybrid Heterogeneous Environment Using Integer Linear Programming](#)

T. N. Boiński (formerly: T. Boiński), K. Garnał - *COMPUTER JOURNAL* - 2021


In the paper we investigate a practical approach to application of integer linear programming for optimization of data assignment to compute units in a multi-level heterogeneous environment with various compute devices, including CPUs, GPUs and Intel Xeon Phi. The model considers an application that processes a large number of data chunks in parallel on various compute units and takes into account computations, communication including...

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dr inż. Jakub Szulwic

Employment
 Assistant in Department of Geodesy
 Professor in the Faculty of Civil and Environmental
 Engineering

Research Fields

Geodesy

Photogrammetry

Remote Sensing

Lidar

Terrestrial Laser Scanning

Concrete

Civil Engineering


Geoinformatics


Geomatics


Profile
Biographical note
Publications (10)
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Publication showcase

[MARITIME LASER SCANNING AS THE SOURCE FOR SPATIAL DATA](#)

Y. Kucukdemir, B. Arslan, S. Ural, C. Haktanir, C. Haktanir, H. F. Haktanir, J. Szulwic, A. Tuncel, S. Inceoglu / *Archiv für Hydrologie und Wasserbau*

The rapid development of scanning technology, especially mobile scanning, gives the possibility to collect spatial data via platforms and autonomous (unmanned) vehicles. Increased reliability is derived from the mobile scanning. Due to the specificity of laser scanning at sea and processing collected data should be in the form accessible in geographical information systems.

[Remote sensing and photogrammetry techniques in diagnostics of concrete structures](#)

A. Arslan, B. Nagrodka-Codyka, J. Szulwic, H. Haktanir / *Geodesy and Cartography* - 2024.

Recently laser scanning technology has become widely used in many areas of the modern economy. In the following paper spectrum of use for terrestrial laser scanning (TLS) in diagnostics of reinforced concrete elements. Based on works of field concrete beam authors describe the benefits and advantages of adaptation of terrestrial laser scanning to the purpose, in 2D and 3D test in external service.

[Mobile indicators in GIS and GPS-responsive accurate indicators](#)

A. Arslan, A. Haktanir, H. F. Haktanir / *UTM* - 2024.


The publication describes the possible use of tele-geoprocessing as a synthesis of modern information technologies and presents a possibility of urban traffic monitoring with the use of mobile GIS indicators of dedicated monitoring system and system is based on a stationary and mobile software package. The optimal and minimal assumptions for the monitoring of traffic flow in external service.

Remote sensing and photogrammetry techniques in diagnostics of concrete structures


Abstract

Recently laser scanning technology has become widely used in many areas of the modern economy. In the following paper spectrum of use for terrestrial laser scanning (TLS) in diagnostics of reinforced concrete elements. Based on works of field concrete beam authors describe the benefits and advantages of adaptation of terrestrial laser scanning to the purpose, in 2D and 3D test in external service. Research studies were conducted by Faculty of Civil and Environmental Engineering at Gdansk University of Technology. An experiment involved testing of reinforced concrete beams. The process was registered by the terrestrial laser scanner. Reference concrete beams with different geometry were used and checked by the mobile process scanning and recording by mobile data acquisition (MDS) and verified by aerial photography (aerial photography) supported by digital photogrammetry methods. Obtained data were post-processed in Leica Cyclone (dedicated software) and Microsoft program (GIS) ArcView. The main goal of this paper is to present the effectiveness of TLS in diagnostics of reinforced concrete elements. Authors propose few methods and procedures to reliably register and store points, measure geometry and assess a condition of structure.


Cytowanie



Crossref



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Scopus

Citowany

American Psychological Association et al. (2024). Remote sensing and photogrammetry techniques in diagnostics of concrete structures. *Geodesy and Cartography*, 48(1), 481-488. <https://doi.org/10.1515/goc-2024-0048>

Tematy powiazane

GIS

GNSS



DEFORMATION MEASUREMENT

MODES OF FAILURE

TERRESTRIAL LASER SCANNING

Publikacje

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Magdalena Szufiła-Zurawska

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Open Science Competence Center at the Gdańsk University of Technology Library in numbers

International F4IR Consortium Symposium
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Summary: Bridge of Two Worlds at Gdańsk University of Technology (GUT) was established to support researchers in their activities regarding the use of Open Science. The project is unique to Gdańsk University of Technology and involves the University of Gdańsk, the Faculty of Information Science, the Faculty of Technology, the Faculty of Medicine, the Faculty of Health Sciences, the Faculty of Engineering, and the Faculty of Architecture.

Open Science Competence Center is the unique contact point that offers help and supporting services for "library" users in order to: The Center provides various training, consultations, and other services concerning the use of existing services and its possibilities for their use such as broader collaboration, increasing usage and sharing, faster research, or greater public engagement.

Summary in numbers (from the end of 2020):

- Number of workshops: 47
- Number of online trainings: 15
- Number of face-to-face consultations: 137
- Number of online classes: 90
- Data Management Plan: from a pilot group of scientific disciplines (e.g. VIKENET), engineering, electronics, mechanical engineering - about 100 from August 2019 to October 2020





Kognizja i sztuka w literaturze japońskiej X wieku

Magdalena Szufiła-Zurawska

Open Science Competence Center at the Gdańsk University of Technology Library in numbers

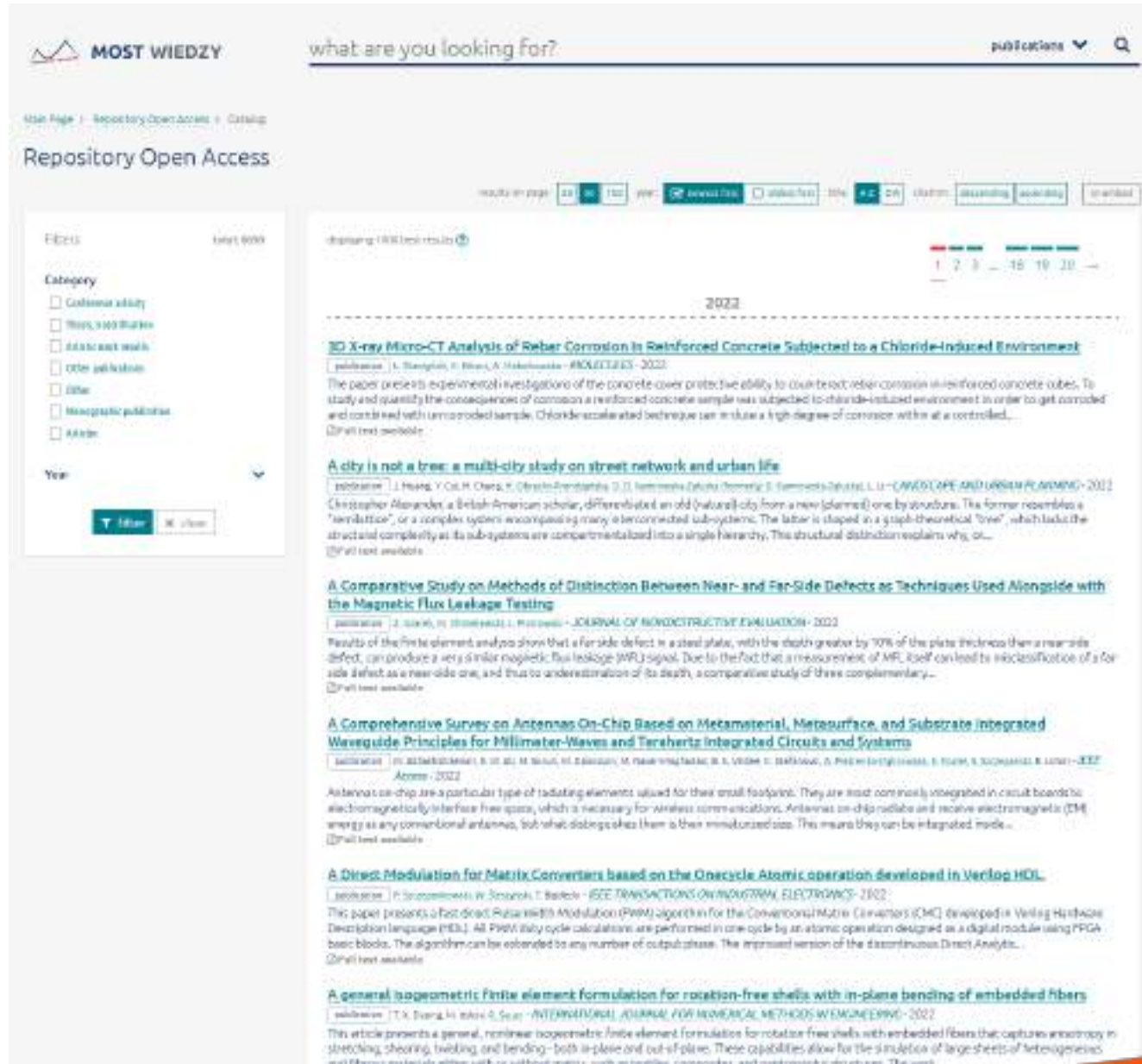
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Prace naukowe (1)
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Prace naukowe (1)

1. Kognizja i sztuka w literaturze japońskiej X wieku / Magdalena Szufiła-Zurawska. W: Kognizja i sztuka w literaturze japońskiej X wieku. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2021, s. 115-144, DOI: 10.15130/KiS.2021.01.001
2. Kognizja i sztuka w literaturze japońskiej X wieku / Magdalena Szufiła-Zurawska. W: Kognizja i sztuka w literaturze japońskiej X wieku. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2021, s. 115-144, DOI: 10.15130/KiS.2021.01.001
3. Kognizja i sztuka w literaturze japońskiej X wieku / Magdalena Szufiła-Zurawska. W: Kognizja i sztuka w literaturze japońskiej X wieku. Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2021, s. 115-144, DOI: 10.15130/KiS.2021.01.001
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2022

3D X-ray Micro-CT Analysis of Rebar Corrosion in Reinforced Concrete Subjected to a Chloride-Induced Environment
[publication] J. Szwed, P. Błach, A. Makuchowska - *ROJECTS* - 2022
The paper presents experimental investigations of the concrete cover protective ability to counteract rebar corrosion in reinforced concrete cubes. To study and quantify the consequences of corrosion a reinforced concrete sample was subjected to chloride-induced environment in order to get corroded and combined with uncorroded sample. Chloride escalated technique can induce a high degree of corrosion within a controlled...
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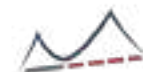
A city is not a tree: a multi-city study on street network and urban life
[publication] J. Huang, Y. Guo, H. Chen, S. Ghosh, S. Venkatesh, D. J. Simonsen, G. Chen, J. Simonsen, G. Chen, L. Li - *CITIES* - 2022
Christopher Alexander, a British-American scholar, differentiated an old (natural) city from a new (planned) one by structure. The former resembles a "honeycomb", or a complex system encompassing many interconnected sub-systems. The latter is shaped in a graph-theoretical "tree", which lacks the structural complexity as its sub-systems are compartmentalized into a single hierarchy. This structural distinction explains why, of...
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A Comparative Study on Methods of Distinction Between Near- and Far-Side Defects as Techniques Used Alongside with the Magnetic Flux Leakage Testing
[publication] J. Szwed, M. Staszewski, M. Staszewski - *JOURNAL OF NONDESTRUCTIVE EVALUATION* - 2022
Results of the finite element analysis show that a far side defect in a steel plate, with the depth greater by 10% of the plate thickness than a nearside defect, can produce a very similar magnetic flux leakage (MFL) signal. Due to the fact that a measurement of MFL itself can lead to misclassification of a far side defect as a nearside one, and thus to underestimation of its depth, a comparative study of three complementary...
[Full text available]

A Comprehensive Survey on Antennas On-Chip Based on Metamaterial, Metasurface, and Substrate Integrated Waveguide Principles for Millimeter-Waves and Terahertz Integrated Circuits and Systems
[publication] M. Staszewski, M. Staszewski, M. Staszewski, M. Staszewski, M. Staszewski, M. Staszewski, M. Staszewski, M. Staszewski, M. Staszewski, M. Staszewski - *IEEE Access* - 2022
Antenna on-chip are a particular type of radiating elements valued for their small footprint. They are most commonly integrated in circuit boards to electromagnetically interface free space, which is necessary for wireless communications. Antennas on-chip radiate and receive electromagnetic (EM) energy as any conventional antenna, but what distinguishes them is their miniaturized size. This means they can be integrated into...
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A Direct Modulation for Matrix Converters based on the One-cycle Atomic operation developed in Verilog HDL
[publication] M. Staszewski, M. Staszewski, M. Staszewski - *IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS* - 2022
This paper presents a fast direct Pulse Width Modulation (PWM) algorithm for the Conventional Matrix Converters (CMC) developed in Verilog Hardware Description language (VHDL). All PWM duty cycle calculations are performed in one cycle by an atomic operation designed as a digital module using FPGA basic blocks. The algorithm can be extended to any number of output phases. The proposed version of the discontinuous Direct Analytic...
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A general isogeometric finite element formulation for rotation-free shells with in-plane bending of embedded fibers
[publication] T. A. Dang, H. Dang, S. Dang - *INTERNATIONAL JOURNAL OF NUMERICAL METHODS IN ENGINEERING* - 2022
This article presents a general, nonlinear isogeometric finite element formulation for rotation-free shells with embedded fibers that captures anisotropy in stretching, shearing, twisting and bending—both in-plane and out-of-plane. These capabilities allow for the simulation of large sheets of heterogeneous and fibrous materials either with or without matrix, such as fabrics, composites, and reinforced structures. The work




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A new tool for the evaluation of the analytical procedure: Green Analytical Procedure Index ✔

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Author (1)

Justyna Płočka-Wasyłka orcid, iD

Department of Analytical Chemistry
Faculty of Chemistry
Czestochowa University of Technology

Abstract

A new means for assessing analytical protocols relating to green analytical chemistry attributes has been developed. The new tool, called GAPI (Green Analytical Procedure Index), evaluates the green character of an entire analytical methodology, from sample collection to final determination, and was created using such tools as the National Environmental Methods Index (NEMI) or Analytical Eco-Scale to provide not only general but also qualitative information. In GAPI, a specific symbol with five pentagrams can be used to evaluate and quantify the environmental impact involved in each step of an analytical methodology, mainly from green through yellow to red depicting low, medium to high impact, respectively. The proposed tool was used to evaluate analytical procedures applied in the determination of biogenic amines in wine samples, and polycyclic aromatic hydrocarbon determination by EPA methods. GAPI tool not only provides an immediately perceptible perspective to the user/reader but also offers exhaustive information on evaluated procedures.

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Płočka-Wasyłka, J. (2018). A new tool for the evaluation of the analytical procedure: Green Analytical Procedure Index. TALANTA, The International Journal of Pure and Applied Analytical Chemistry, 181, 284-289. <https://doi.org/10.1016/j.talanta.2018.01.013> ORCID

Keywords

EKO-SCALA
GAPI
NEMI
BELONA CHEMIA ANALITYCZNA

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2022

50' Sait Catamaran with Hybrid Propulsion, Design, Theoretical and Experimental Studies
publication | M. Uroń, D. Pajek, W. Leflewski, S. M. Marzafinski (formerly: S. Marzafinski) - Polish Maritime Research - 2022
The development of modern lithium batteries and propulsion systems now allows the use of complex propulsion systems for vessels of various sizes. As



Polish Maritime Research

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POLISH MARITIME RESEARCH is a scientific journal with a worldwide circulation. This journal is published quarterly (four times a year) by Gdańsk University of Technology (Gdansk Tech). On September 1994, the first issue of POLISH MARITIME RESEARCH was published.

The main objective of this journal is to present original research, innovative scientific ideas, and significant findings and applications in the field of Architecture, Ocean Engineering and Underwater Technology.



Research on Enterprise in Modern Economy theory and practice

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Research on Enterprise in Modern Economy - theory and practice (REMEO)/Przedsiębiorstwa we współczesnej gospodarce - teoria i praktyka reviewed multidisciplinary semiannual journal devoted to the advancement of study an enterprises. The journal is published by Gdańsk University of Technology.

The mission of the journal is to contribute to the development of knowledge and new ideas by creating opportunities to present scientific find, exchange ideas. We await for publications of a theoretical and empirical nature, which concern various aspects of the functioning of enterprises.

The journal "Research on Enterprise in Modern Economy - theory and practice" is on the Web of Science list of scientific journals and reviewed materials international conferences with 30 points.

TASK Quarterly



TASK Quarterly

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TASK Quarterly journal is presenting articles concerning usage of information technologies to solve important problems in science and engine applications of high computing power infrastructure and artificial intelligence methods in various types of research and development projects.



BRIDGE OF EVENTS

Seminarium MOST DANYCH - jak skutecznie motywować naukowców do udostępniania danych badawczych w Otwartym Dostępie? Spotkanie grupy roboczej DSCC-IN PL.

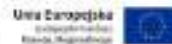
30 maj 2022, 11:30 - 31 maj 2022, 14:00 [Zapisać](#)

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Opis Grupa robocza jest wyznaczonej do oceny skuteczności działań wdrożonych w ramach projektu MOST DANYCH w celu zwiększenia motywacji naukowców do udostępniania danych badawczych w otwartym dostępie oraz popularyzowania szeroko naukowego.

Seminarium kierowane jest do osób, które planują lub już realizują na swoich uczelniach dydaktyczny, pracowni lub instytut nauki, naukowców lub badaczy w procesie przygotowywania i realizacji artykułów naukowego charakteru w międzynarodowych czasopiśmie.

Seminarium organizowane jest w ramach projektu **MOST DANYCH - Matematycy i Inżynierowie: Szeregi, Wzrosty, Ciągi i Dane Badawcze Dobre** współfinansowanego z Europejskiego Funduszu Rozwoju Regionalnego w ramach Programu Operacyjnego Polska Cyfrowa na lata 2014-2020.



Kontakt: info@mostdanych.pl

11:30 - 12:00	Rejestracja Uczestników	30min
12:00 - 12:15	Powitanie Uczestników i otwarcie Seminarium	15min
12:15 - 17:00	Seminarium MOST DANYCH	
12:15	Keynote Prelegent: Dr Dariusz Szlachetka, Dyrektor Instytutu Inżynierii i Informatyki, Uniwersytetu Technicznego w Budapeszcie, węgierski ekspert ds. Otwartego Dostępu do Danych (ODD) i Inżynierii Danych (ID) w Europie Leczenie: 15min	45min
13:00	Otwarte dane badawcze w polityce NGN Prelegent: Dr Jerzy Piórkowski, Dyrektor Instytutu Inżynierii i Informatyki, Uniwersytetu Technicznego w Budapeszcie, węgierski ekspert ds. Otwartego Dostępu do Danych (ODD) i Inżynierii Danych (ID) w Europie Leczenie: 15min	45min
13:45	Lunch	15min
14:45	MOST Wiedzy jako kompleksowe narzędzie popularyzacji nauki Prelegent: Marcin Nowak, Dyrektor Instytutu Inżynierii i Informatyki, Uniwersytetu Technicznego w Budapeszcie, węgierski ekspert ds. Otwartego Dostępu do Danych (ODD) i Inżynierii Danych (ID) w Europie Leczenie: 20min	20min
15:00	Zakodowane szanse. Odrywanie otwartych monografi za pomocą danych Prelegent: Natalia Wójcik, Dyrektor Instytutu Inżynierii i Informatyki, Uniwersytetu Technicznego w Budapeszcie, węgierski ekspert ds. Otwartego Dostępu do Danych (ODD) i Inżynierii Danych (ID) w Europie Leczenie: 20min	20min
16:30	Przerwa	30min



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[Horizon Europe proposals - Administrative Part](#)

open research data open access A. Bernaczyk, Krajowy Punkt Kontaktowy Programu Badawczych UE - series: *Horizon Europe proposals - Administrative Part DSS test*
The dataset contains data collected during the HE National Contact Point training on Oct. 12, 2022, reg. the administrative part of Horizon Europe grant proposals. The data set includes presentations concerning administrative forms of 2022 proposals and their content, including participant data; information about abstract writing, keyword choice and...

[XRD, DTA and luminescence measurements of B2O3-Bi2O3-AlF3 glasses doped with Eu3+, Tb3+ and Tm3+ ions](#)

open research data open access K. Hlilowska, M. Maciejewski, A. Sznaj, W. Sedowski, B. Kocielata
The DataSet contains the XRD, DTA and luminescence measurements for the B2O3-Bi2O3-AlF3 glass system. Samples were prepared by the conventional melt quenching technique. Characterization was method in separate samples at 200 °C for 30 min. XRD and DTA data were collected for...


Tagged images with LEGO bricks - Plates wersja 1.2

Opis
The set contains images of LEGO bricks (from Plates category). The images were prepared for training neural network for recognition and labeling of LEGO bricks. The images contain one brick each. The images were taken from different angles by two RGB cameras hovering over the bricks lying on a white, non-reflective surface.

The images were captured from 3000x 1500 pixel sized images (20 FPS camera (2160x1080 resolution, 30 FPS frame rate)). The bricks were illuminated using two top-down lighting fixtures (8000 LED lamps). The shutter speed and ISO were set to 1/100 and 20 respectively (to reach the target frequency). Each file is linked to a bounding box as created using Labelator app (<https://github.com/labelator>). The bounding boxes were created using YOLO trained neural network designed to detect (but not differentiate) LEGO bricks.

The bricks have random colors. The photos are organized using official LEGO part numbers photos of each brick located in a folder named after the part number.

Sample images are presented below.



Autory
Tomasz Marle Błażej i inni
Blażej A. marle@poczta.onet.pl
8000-0000-0000-0000
100000

Wersja

<input checked="" type="checkbox"/> wersja 1.2	2021-12-01
wersja 1.1	2021-10-01
wersja 1.0	2021-04-20

DOI: [10.34888/BKqay-2s61](https://doi.org/10.34888/BKqay-2s61)

PKA z innymi badaniami

Plates.zip
1712 MB, 332 Tagi (1712) 108738 plików (1044) 108738 plików

Informacje szczegółowe o pliku

Licencja:

Informacje szczegółowe

ROZKŁADKI	3001
Data opublikowania	2021-12-01
Język oryginalny	angielski
Opis pliku	Informacje biblioteczne i telekomunikacja (rozdział) (rozdział) Informacje Otwartej nauki (rozdział) (rozdział)
DOI	10.34888/BKqay-2s61
Sekcja	+ LEGO
Wersja pliku	Plates (Brick) GolaVelo

Słowa kluczowe

LEGO, images, bounding boxes

Cite as

APA HARVARD Vancouver Chicago MLA EXPORT: BibTeX JSON-LD RIS DataCite

Blażej-Gołąbiewska, A. (2021). *Individual corporate reputation, perception of collective corporate reputation, stock market investments* [Data set]. Gdańsk University of Technology. <https://doi.org/10.34888/BKqay-2s61>

LDRAW based renders of LEGO bricks moving on a conveyor belt with extracted models

version 2.16

Do you need help?

Files 144/17

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Version

	version 2.16 13.14168/1601-4107	2021-07-08
	version 2.15 13.14168/1601-4107	2021-09-08
	version 2.14 13.14168/1601-4107	2021-09-08
	version 2.13 13.14168/1601-4107	2021-08-08
	version 2.12 13.14168/1601-4107	2021-08-08

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DOI: 10.24408/1601-4107 represents the latest version of this dataset.

Open Research Data - LDRAW based renders of LEGO bricks moving on a conveyor belt with extracted models

Do you need help?

version 2.16

LDRAW based renders of LEGO bricks moving on a conveyor belt with extracted models

Open Research Data | version 2.16 | Tomasz M. Bojski, S. Zarachński, S. Świątek, K. Zawora
The set contains renders of LEGO bricks moving on a white conveyor belt. The images were prepared for training neural network for recognition of LEGO bricks. For each brick starting position, alignment and color was selected (considering the brick falling down on the conveyor belt) and then 10 images was created while the brick was moved across the...

LDRAW based renders of LEGO bricks moving on a conveyor belt with extracted models

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The set contains renders of LEGO bricks moving on a white conveyor belt. The images were prepared for training neural network for recognition of LEGO bricks. For each brick starting position, alignment and color was selected (considering the brick falling down on the conveyor belt) and then 10 images was created while the brick was moved across the...

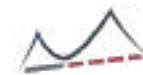
LDRAW based renders of LEGO bricks moving on a conveyor belt with extracted models

Open Research Data | version 2.13 | Tomasz M. Bojski, S. Zarachński, S. Świątek, K. Zawora
The set contains renders of LEGO bricks moving on a white conveyor belt. The images were prepared for training neural network for recognition of LEGO bricks. For each brick starting position, alignment and color was selected (considering the brick falling down on the conveyor belt) and then 10 images was created while the brick was moved across the...

LDRAW based renders of LEGO bricks moving on a conveyor belt with extracted models

Open Research Data | version 2.12 | Tomasz M. Bojski, S. Zarachński, S. Świątek, K. Zawora
The set contains renders of LEGO bricks moving on a white conveyor belt. The images were prepared for training neural network for recognition of LEGO bricks. For each brick starting position, alignment and color was selected (considering the brick falling down on the conveyor belt) and then 10 images was created while the brick was moved across the...

Data series and relationships



Open Research Data - People

dr inż. Tomasz Maria Boiński

Employment

Assistant at [Department of Computer Architecture](#)

Research fields

- CIWBOARDING
- Generalized A Purpose
- Heuristic results verification
- Mapping Creation And Verification

Profile | Biographical note | Publications (39) | Achievements (4)

Organizations (5) | Teaching (117) | **Research data (6)**

article **LEGO** [113644] expand

article **Video of LEGO bricks on conveyor belt** [113647] expand

article **Bees** [113648] expand

Automatically created and partially verified Wikipedia - WordNet mappings

Mapping between Wikipedia articles and WordNet synsets. The mappings between Wikipedia article and

Open Research Data - Thermographic imaging of prototype electrochemical double layer capacitors

Results in page: 1-2-3-4

Filters: 116/114

Year of publication

- 2011

Discipline

- Materials and technology

Administrative Unit

Open model

- open access
- restricted access
- embargo

1 item **0** data

Thermographic imaging of electrochemical double layer capacitors during cycling charging - discharging 0 - 3,4 V at 420 mA. Sample 103, run #1.

[open metadata](#) [open access](#) [1 file, 2 images](#) - **article** Thermographic imaging of prototype electrochemical double layer capacitors

Dataset contains thermal images of prototype electrochemical double layer capacitor taken during cycle charging - discharging. The sample was charged to 3,4 V and discharged to 18 mV by constant current 420 mA. Sample 103. Experiment run #1. Voltage was increased to accelerate the ageing process. The images were taken with thermographic camera VgoCAM.

Thermographic imaging of electrochemical double layer capacitors during cycling charging - discharging 0 - 3,4 V at 420 mA. Sample 103, image period: 1 sec.

[open metadata](#) [open access](#) [1 file, 2 images](#) - **article** Thermographic imaging of prototype electrochemical double layer capacitors

Dataset contains thermal images of prototype electrochemical double layer capacitor taken during cycle charging - discharging. The sample was charged to 3,4 V and discharged to 18 mV by constant current 420 mA. Sample 103. Pictures were taken with period of 1 sec in order to examine the fast fluctuations of sample temperature during charging - discharging.

Thermographic imaging of electrochemical double layer capacitors during cycling charging - discharging 0 - 3,4 V at 420 mA. Sample 103, image period: 0,5 sec.

[open metadata](#) [open access](#) [1 file, 2 images](#) - **article** Thermographic imaging of prototype electrochemical double layer capacitors

Dataset contains thermal images of prototype electrochemical double layer capacitor taken during cycle charging - discharging. The sample was charged to 3,4 V and discharged to 18 mV by constant current 420 mA. Sample 103. Images were taken with period of 0,5 sec (1/2) in order to examine the fast fluctuations of sample temperature during charging.

Thermographic imaging of electrochemical double layer capacitors during cycling charging - discharging 0 - 3,4 V at 420 mA. Sample 103, run #2.

[open metadata](#) [open access](#) [1 file, 2 images](#) - **article** Thermographic imaging of prototype electrochemical double layer capacitors

Dataset contains thermal images of prototype electrochemical double layer capacitor taken during cycle charging - discharging. The sample was charged to 3,4 V and discharged to 18 mV by constant current 420 mA. Sample 103. Experiment run #2. Voltage was increased to accelerate the ageing process. The images were taken with the thermographic camera VgoCAM.

Thermographic imaging of electrochemical double layer capacitors during cycling charging - discharging 0 - 3,5 V at 420 mA. Sample 103.

[open metadata](#) [open access](#) [1 file, 2 images](#) - **article** Thermographic imaging of prototype electrochemical double layer

Home / Top / Open Research Data / 3 / Gold nanocubic structures functionalization with organic layers

Gold nanocubic structures functionalization with organic layers

Description

This dataset contains the XPS spectra obtained for gold nanocubes (AuNC) which were deposited at the gold electrode surface and dried. The AuNCs were first functionalized with either cysteamine in DCl or mercaptopropionic acid in DCl. The concentration of these compounds was 20 mM. The interaction of the functionalized with the AuNC surface was investigated. The four different sample types are as follows: CNH - the surfactant used for AuNC solution, AuNC - bare functionalized AuNC, C - cysteamine, T - mercaptopropionic acid. Each sample was studied twice. The low-resolution XPS spectrum was obtained, followed by high-resolution scans of C1s, N1s, O1s and S2p energy ranges. The pass energy was 20 eV with an energy step size of 1 eV. The amount of gold AuNC was 10 nL in each case.

Dataset file

dataset_3.zip
122.018 KB (27) |
Download dataset (27 downloads) | 3 files |
contents preview | research access

File details

License:	Restricted access, restricted and published
Raw data:	Data contained in dataset was not processed
Details	
Year of publication:	2021
Verification date:	2021-04-04
Dataset language:	English
Fields of science:	Chemical sciences (Natural sciences) Materials engineering (Engineering and Technology)

Authors

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Doctor

MODALITY corpus - SPEAKER 01 - COMMANDS C1

Cyfr

The MODALITY corpus is one of the multimodal datasets of user recordings in English. It consists of over 30 hours of multimodal recordings. The database contains high-resolution, high-frame-rate stereoscopic video streams and audio signals obtained from a microphone array with a 360-degree microphone. The corpus can be employed to develop an ASR system, as every utterance is labeled. Recordings in many conditions can be used to test the robustness of speech recognition systems.

The language material was based on a variety of control scenarios and it includes 131 events: numbers, names of months and days, a set of verbs and nouns related to a computer device control. They were read by speakers as appraised words and sequences including a set of 12 reading windows per speaker. Half of the sessions were recorded in quiet conditions, the other half contained three levels of background noise: in office, in home and in factory noise.


The corpus includes recordings of 42 speakers (33 male, 9 female). The participants include 28 students and staff of Wydział Inżynierii i Informatyki of the Gdańsk University of Technology, 6 students of the Institute of English and American Studies of the University of Gdańsk, and 17 native English speakers.

The dataset consists of recordings and visual features for **SPEAKER 01**

- size: 1041
- native speaker: 0
- age: 21

The text material: **COMMANDS C1**

All recordings for all speakers are available at <https://www.modalities.com/corpus/>



Sample still from the corpus
by [SAPRAGE BY](#)

Dziękujemy i badaczym!

SPO1_COMMANDS_C1.ZIP
4.2 GB (22) |
Download dataset (22 downloads) | 12, 2021-04-04 | 3 files |
sobota | opublikowane

Informacje szczegółowe o pliku

Informacje

Informacje szczegółowe

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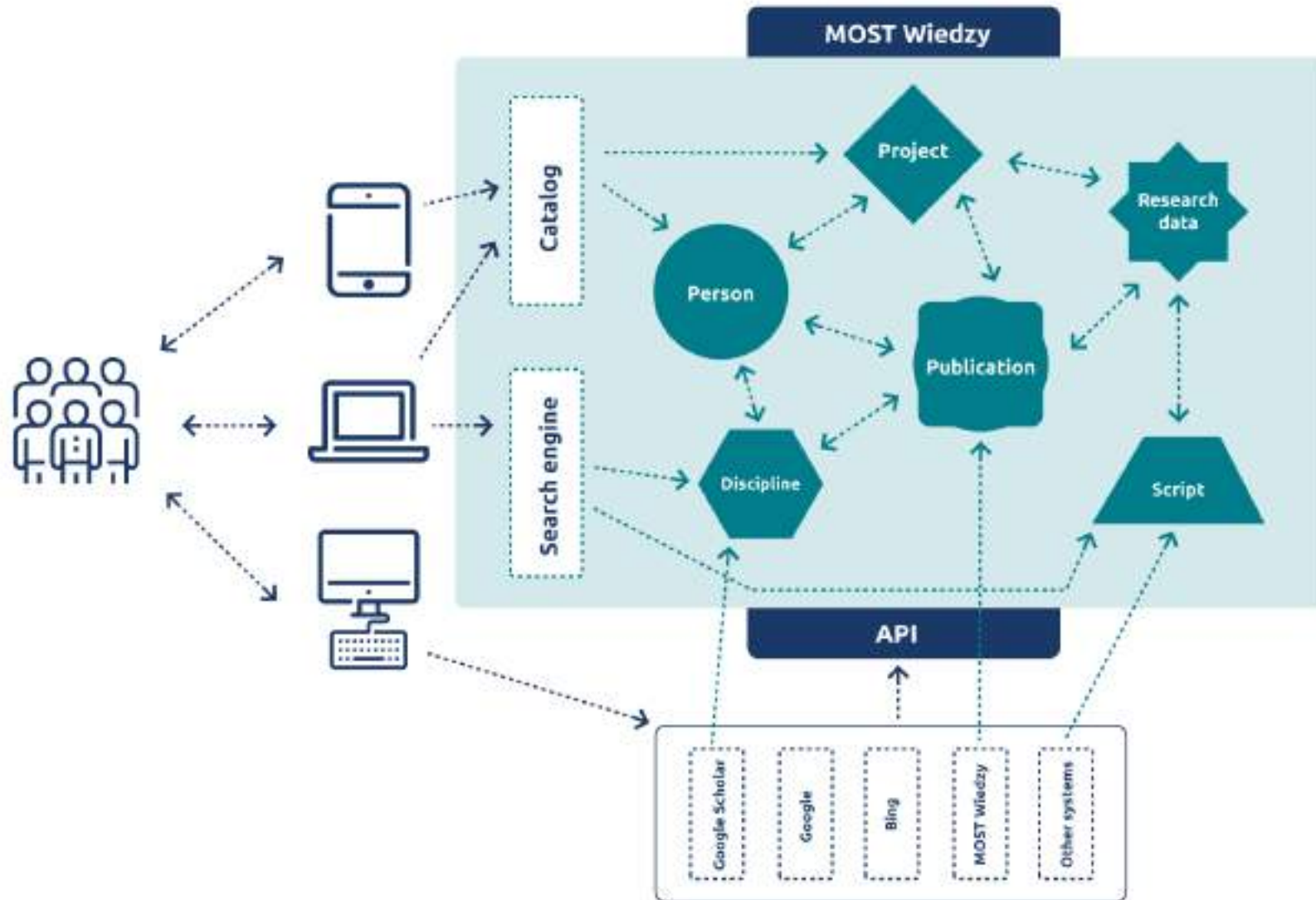
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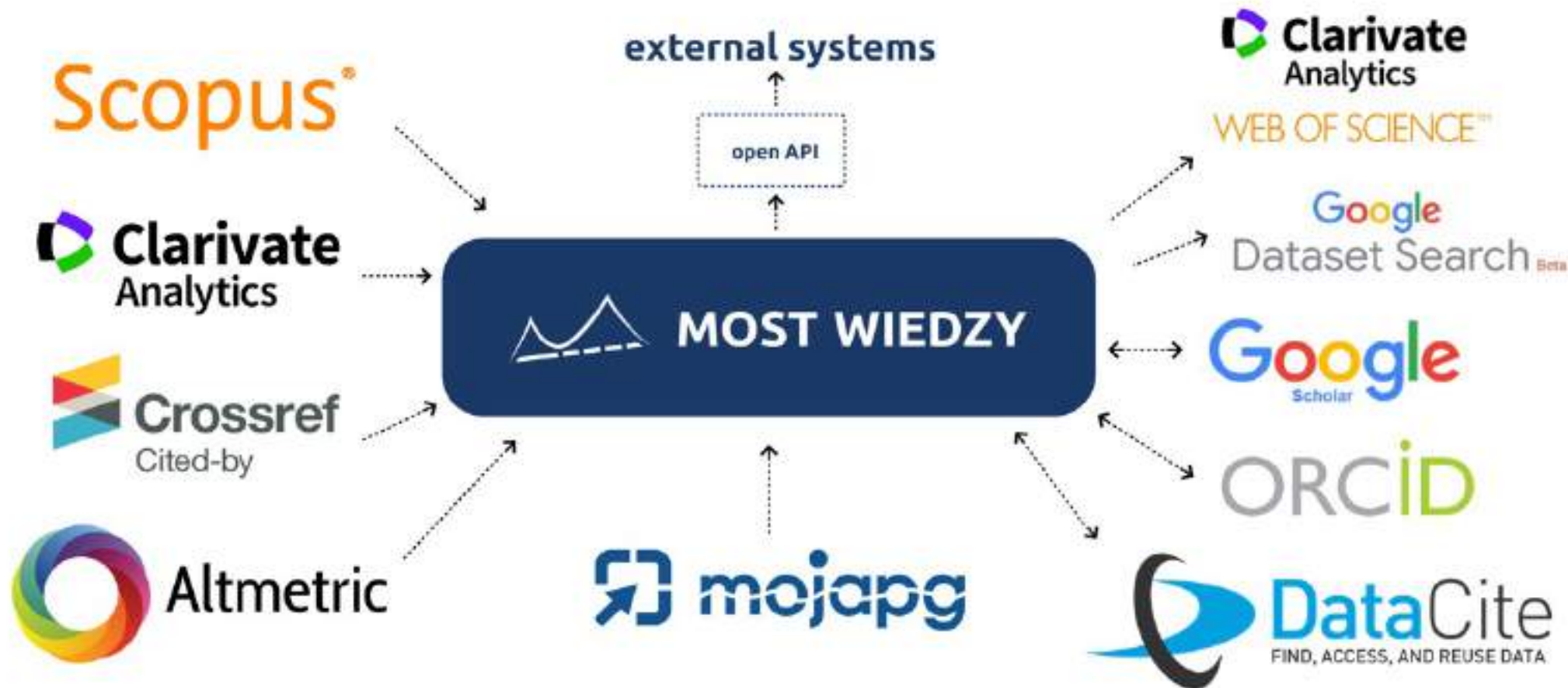
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120 TB

Open Research Data







EOSC Core AAI



EOSC Core PID



agregation in HUBs

large amounts of data

proximity to the supercomputer

fast network connection

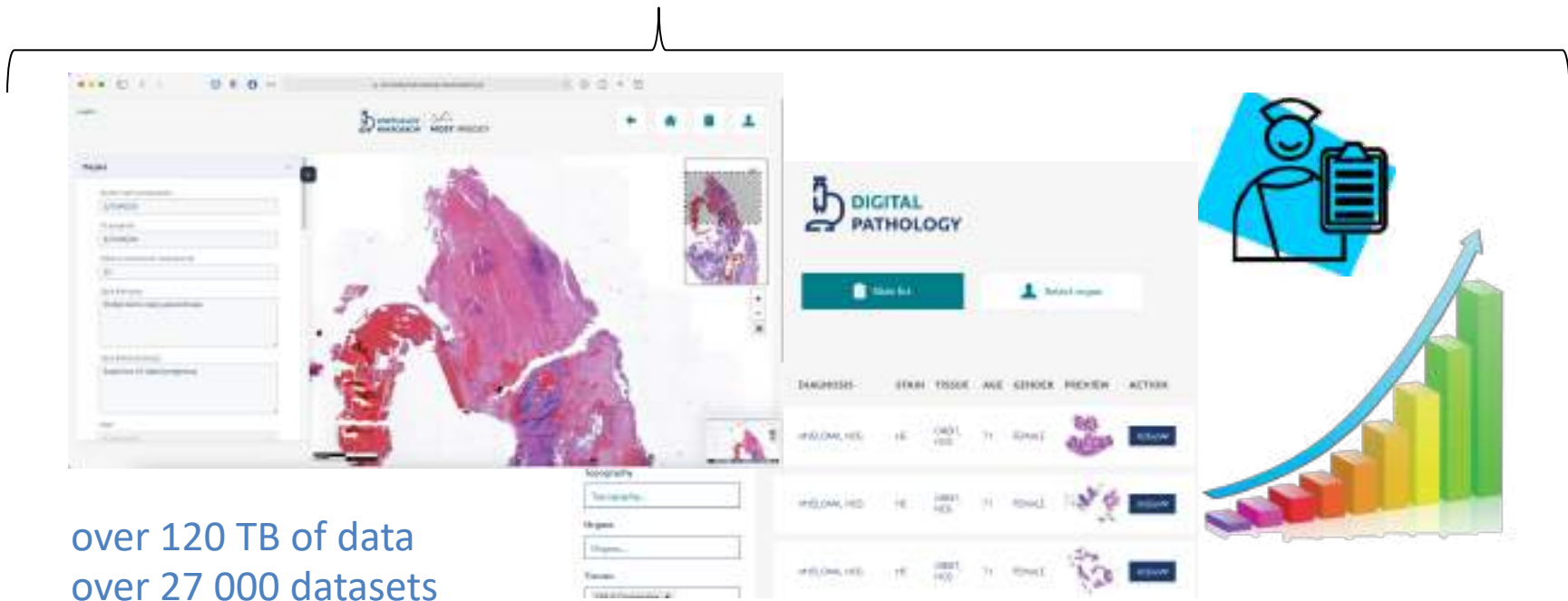
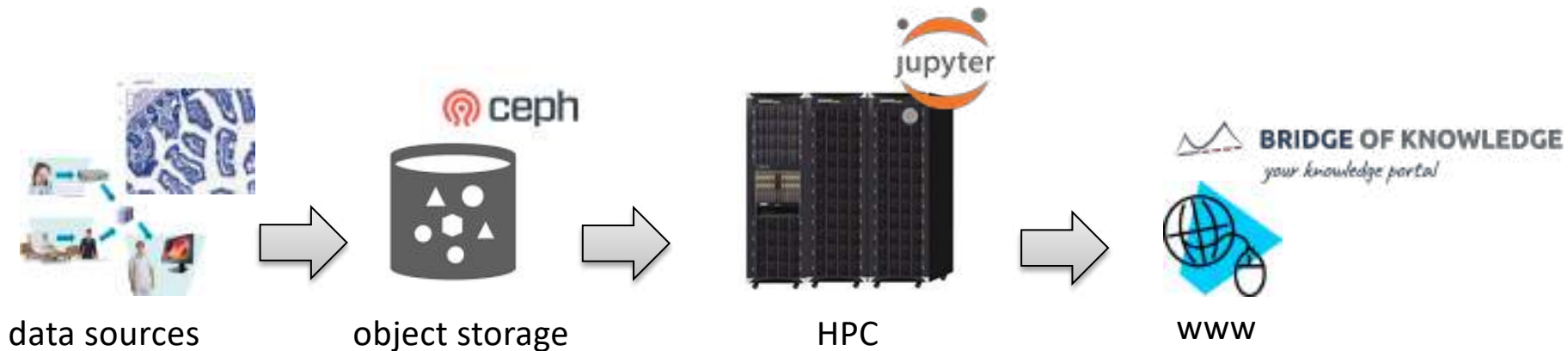
distributed metadata








Data feed automation and processing



The screenshot shows a digital pathology interface. On the left, there's a sidebar with a list of items. The main area displays a large histology image with a smaller thumbnail on the right. Below the image, there's a 'Metadata' section with fields for 'Technique', 'Region', 'Organ', and 'Patient'. On the right, there's a 'DIGITAL PATHOLOGY' header with a 'Share link' button and a 'Select region' button. Below that, there's a table with columns: 'DAGH0381', 'SERIAL', 'TSSUE', 'AGE', 'SEX', 'PREVIEW', and 'ACTION'. The table contains three rows of data.

DAGH0381	SERIAL	TSSUE	AGE	SEX	PREVIEW	ACTION
HP000A_H01	46	COL1_H01	71	Female		Preview
HP000A_H02	46	COL1_H02	71	Female		Preview
HP000A_H03	46	COL1_H03	71	Female		Preview

over 120 TB of data
over 27 000 datasets



3THFR-AD000044

Patient

Age
60

Clinical description
Clinically periodic abdominal pain and weight loss. Macroscopically: a cauliflower-shaped tumour, concentrically constricting the lumen of the colon on the borderline between the ascending and transverse colon. Tumour dimensions: 8,3x4,2x3,8 cm, serosa in the tumour's view is pulled through it and it also seems that infiltrated colonic mucosa outside the tumour.

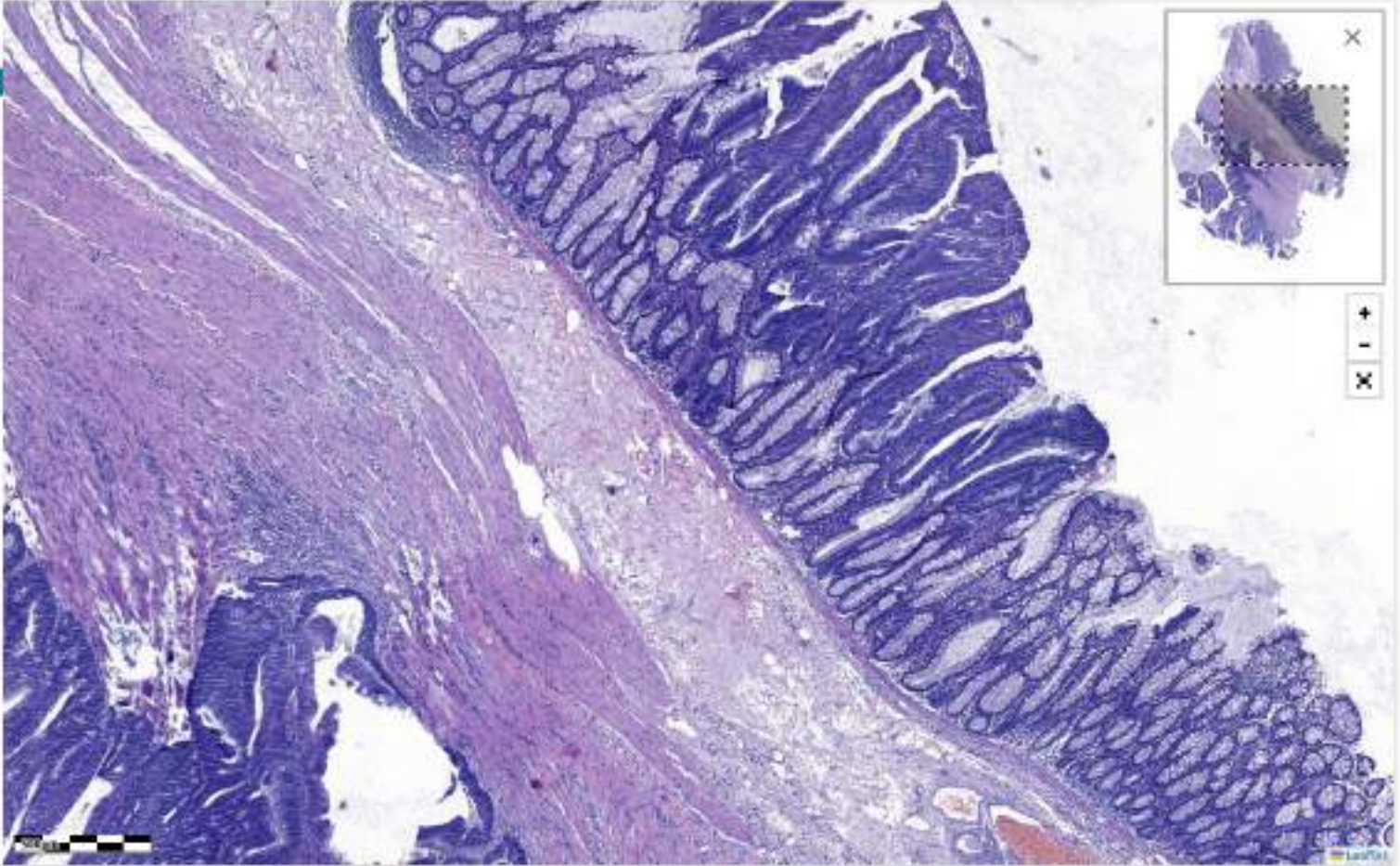
Gender
Male

Diagnosis

Classification
ICD-O_3.2

Classification code
844-849: CYSTIC, MUCINOUS AND SEROUS NEOPLASMS

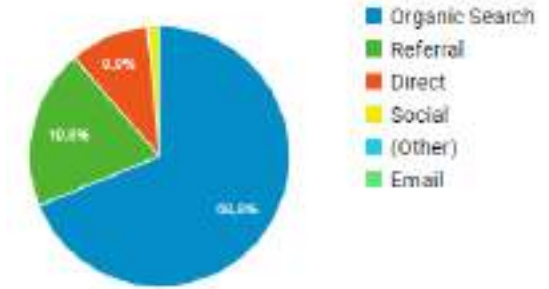
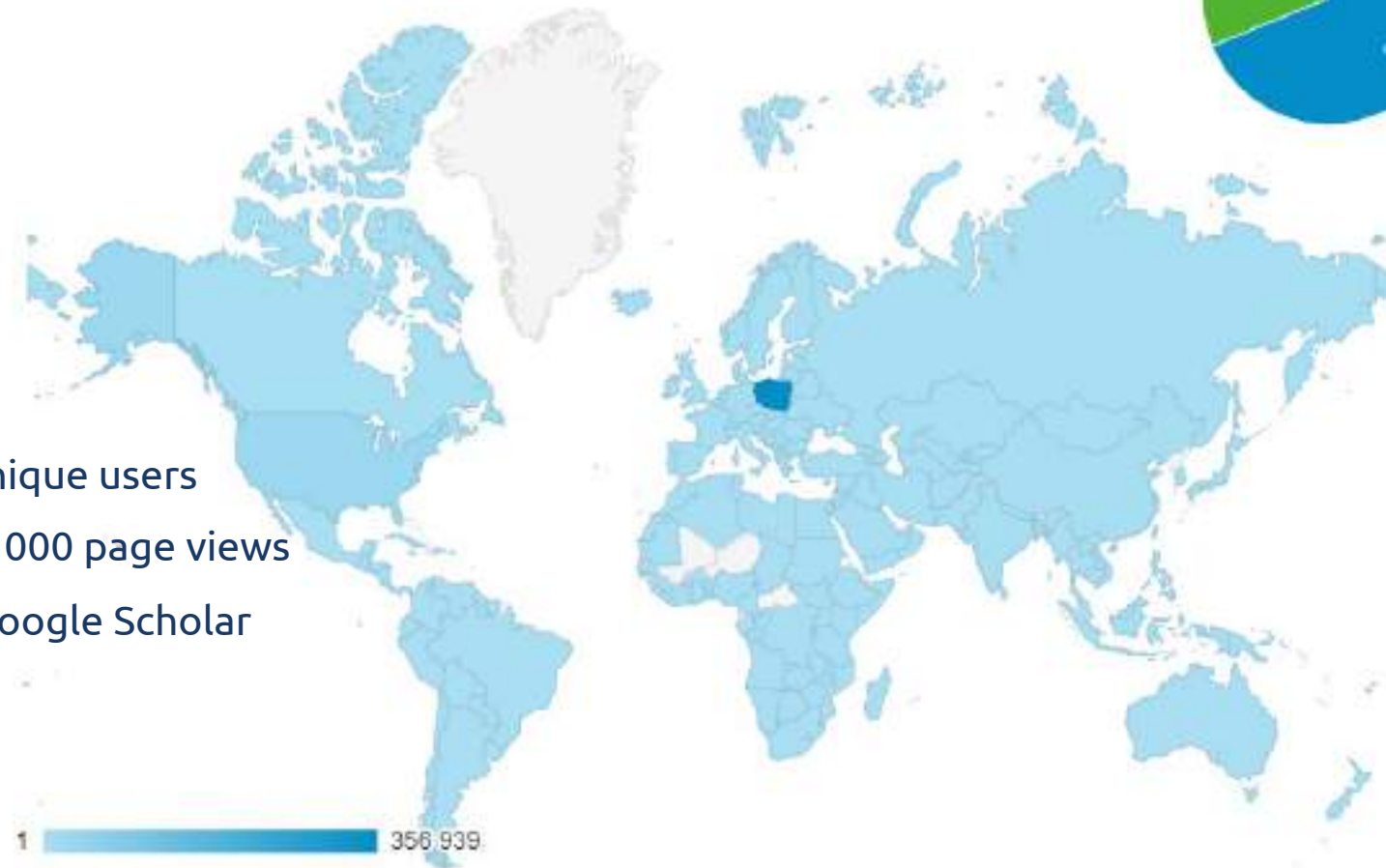
Diagnosis



Study 1

Last year

- **450 000** unique users
- over 1 700 000 page views
- 8% from Google Scholar



Beside Poland: USA, China, Germany, India, UK

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