



BIBLIOTEKA
POLITECHNIKI POZNAŃSKIEJ

Library advanced training course for PhD students



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2020/2021



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Library home webpage

The starting point from which we begin browsing for literature for our work is the library website, which is available in English at

<http://library.put.poznan.pl/en>

We also encourage you to contact us via contact form and e-mail. More information is available at

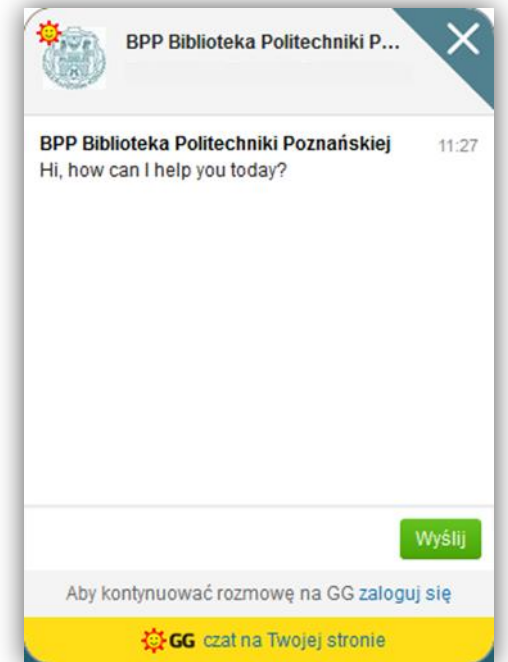
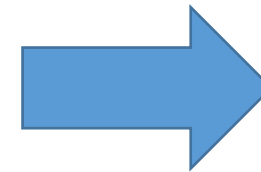
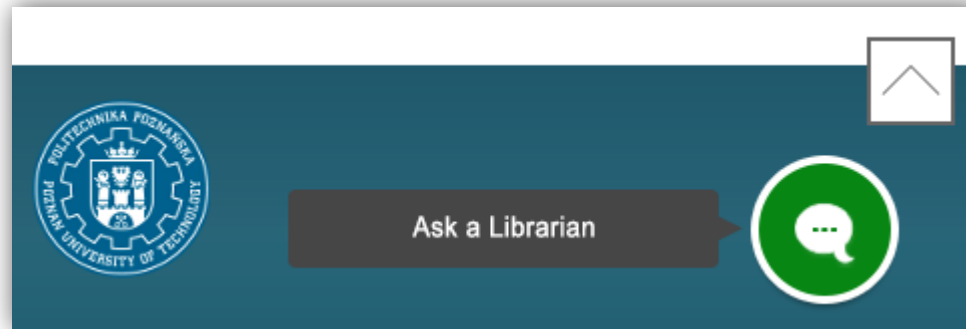
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Returning to the main page of the library, I would like to point out the possibility of using the chat box (bottom right corner of the page), where you can ask questions about all our services.








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Library home webpage

Below are shortcuts to all the most important sections of our website. The "E-resources" section is key for us, as there is a list of all databases offered at our university along with access links.

"E-resources" section

QUICK LINKS

 Opening hours	 Science Information System	 E-resources
 Inter-library loans	 Group study rooms	 Admission & account activation
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Library home webpage

The list is arranged alphabetically, but you can also view it by subject. Database links included in the list require either the use of a computer within the university's computer network or logging in with an active library account (using a university ID card).

Links included in the list require logging in

E-Resources

Multisearch

Search

Attention! Searching in licensed bibliographic databases from home computers requires logging on the Multisearch webpage.

[A-Z list of full-text journals](#)

"E-resources" alphabetical list

E-Resources database

A-Z list

all | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z

Browse by resource type
Select the type of resource

E-resources arranged by subject
Select field of science

Access from home computers (HAN) is generated automatically when you click on the link to e-resource (How to sign in?)



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Search for publications for your own papers – keywords

Defining the subject of your paper (and, consequently, keywords) is the first thing we should do. On the one hand, keywords must - obviously - correspond to the topic of our work. On the other hand be in line with the type of publication we are looking for. More general for books, more specific for articles. You have to adjust keywords according to number or results in databases.

The question is how to effectively choose keywords. You can define keywords based on reference publications corresponding to your topic. These can be publications already found by you that match the topic of your work. You can simply check what keywords are used in them. Keywords which comes along with articles are provided directly by authors so there are corresponding to a particular scientific discipline.

Even in an article published in Polish, you will find keywords, title or abstract translated into English. Such translations are also made by the author of the work - a scientist who knows the characteristics of the discipline and uses appropriate terms.



BIBLIOTEKA
POLITECHNIKI POZNAŃSKIEJ

Publications from BazTech

- BazTech <http://baztech.icm.edu.pl/>

This is the basic database for technical articles (from Polish scientific journals). An increasing number of articles are published in English, so you can also search in this language. Currently, more than 70% of the publications are available for free download (Open Access). The database itself does not require logging in, access is free. In the absence of the full text of the article found in this database, it is very likely that you will find it in our reading room. We have a majority of Polish technical journals in printed edition in Reading Room.

What's more, all publications added to BazTech have a complete set of information including the title of the journal they come from, volume, number, pages – thanks to this, searching for the full text in the reading room does not require any special effort. BazTech also offers a list of keywords used by the authors – it is the right place to expand or find the right keywords for your own work. Remember, if you find an article in the database, you should carefully read its keywords and bibliography to check if it may be useful for future search.



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BazTech – searching

<http://baztech.icm.edu.pl/>

Search form – it's possible to search by title, keywords, author etc. You can also select publications language.

Instead of using search form you can browse articles using keywords database

PL | EN
About database

Search Browse

Search: Articles

containing:

in any field

in the title

among authors

in the title of journal

in the keywords

from quotes

published from year to year

language

fulltext resources

Search Reset

PL | EN
About database

Search Browse

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Search Browse

Browse: Keywords

Keyword: language:

Search Reset

A B C Ć D E F G H I J K L M N O P Q R S T U V W X Y Z Ź

No.	Keyword	No.	Keyword
1	CAD models	11	
2	CAD models library	12	

Number of results on page Page 1 / 1



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BazTech – example article

Abstract

Keywords used by the authors - it is the right place to expand or find the right keywords for your own work.

If we find an article in the database, we should carefully read its bibliography (References) to check if it may be useful for you.

CAD models clustering with machine learning

Authors:
[Machalica Dawid](#), [Matyjewski Marek](#)

Full texts: [Download](#)

Identifiers:
DOI [10.24425/ame.2019.128441](#)

Languages of publication:
EN

Abstracts:

EN Similarity assessment between 3D models is an important problem in many fields including medicine, biology and industry. As there is no direct method to compare 3D geometries, different model representations (shape signatures) are developed to enable shape description, indexing and clustering. Even though some of those descriptors proved to achieve high classification precision, their application is often limited. In this work, a different approach to similarity assessment of 3D CAD models was presented. Instead of focusing on one specific shape signature, 45 easy-to-extract shape signatures were considered simultaneously. The vector of those features constituted an input for 3 machine learning algorithms: the random forest classifier, the support vector classifier and the fully connected neural network. The usefulness of the proposed approach was evaluated with a dataset consisting of over 1600 CAD models belonging to 9 separate classes. Different values of hyperparameters, as well as neural network configurations, were considered. Retrieval accuracy exceeding 99% was achieved on the test dataset.

Keywords:

EN 3D shape matching 3D shape retrieval 3D model recognition 3D shape content-based retrieval machine learning
PL dopasowanie kształtu 3D pobieranie kształtu 3D rozpoznawanie modeli 3D kształt 3D pobieranie oparte na treści uczenie maszynowe

Publisher:
[Komitet Budowy Maszyn PAN](#)

Journal:
[Archive of Mechanical Engineering](#)

Year:
2019

Volume:
Vol. LXVI, nr 2

Pages:
133–152

Physical description:
Bibliogr. 29 poz., rys., tab.

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References:

- [1] T. Funkhouser, P. Min, M. Kazhdan, J. Chen, A. Halderman, D. Dobkin, and D. Jacobs. A search engine for 3D models. *ACM Transactions on Graphics (TOG)*, 22(1):83–105, 2003. doi: 10.1145/588272.588279.
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- [7] J.R. Koza, F.H. Bennett, D. Andre, and M.A. Keane. Automated design of both the topology and sizing of analog electrical circuits using genetic programming. In: *US Gero, F. Sudweeks, editors, Artificial Intelligence in Design'96*, pages 151–170. Springer, Dordrecht, 1996. doi: 10.1007/978-1-4020-0000-0_10.

Free full-text (available only for Open Access articles - about 70% of all BazTech records).

Journal title, volume, number, pages.
Essential information to order article scan.



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Publications from Google Scholar

- Google Scholar <https://scholar.google.pl>

Google Scholar is the Google solution for scientific needs. Google Scholar indexes many full texts available free of charge, e.g. posted on the author's or university's website. Moreover, it also provides publications from BazTech, but does so with a certain delay. Quite a significant disadvantage is a limited selection of options to narrow down the search results (available in the left column on the results page). Unfortunately, with a large number of results, the lack of such options makes it very difficult to filter out the undesired ones. Google Scholar is also a citation database, so after searching for publications you are interested in, you can, by checking out citations, reach those that are thematically similar. Each publication in Google Scholar has source information, i.e. the title of the journal/book it comes from, authors, year, number, pages – all this helps a lot when ordering a full text in Interlibrary Loan.



Google Scholar

<https://scholar.google.pl>

The screenshot shows the Google Scholar search results for the query "cad modeling". The search bar at the top shows "cad modeling" and "Google Scholar". The results list several articles, with the first one being "Parametric CAD modeling: An analysis of strategies for design reusability" by JD Camba, M Contero, and P Company. The article title and authors are highlighted in blue. Below the title, there are links for "Cited by 97" and "Related articles". A blue callout box points to these links with the text: "„Cited by” and „Related articles” - these links help you find another valuable publications." Another article, "Bio-CAD modeling and its application in engineering", is also visible with a "Cited by 444" link highlighted in orange. A third article, "Three-dimensional reconstruction for medical-CAD modeling", has a "Cited by 76" link highlighted in orange. A blue callout box points to the "Cited by" link of this article with the text: "Click on „Cite” icon to get full information about this article".

„Cited by” and „Related articles” - these links help you find another valuable publications.

Google Scholar indexes many full texts available free of charge – like this one.

Click on „Cite” icon to get full information about this article

The screenshot shows the "Cite" dialog box for the article "Three-dimensional reconstruction for medical-CAD modeling". It displays two citation formats: MLA and APA. The MLA format is: "Starly, B., et al. "Three-dimensional reconstruction for medical-CAD modeling." *Computer-Aided Design and Applications* 2.1-4 (2005): 431-438." The APA format is: "Starly, B., Fang, Z., Sun, W., Shokoufandeh, A., & Regli, W. (2005). Three-dimensional reconstruction for medical-CAD modeling. *Computer-Aided Design and Applications*, 2(1-4)." The dialog box has a close button (X) in the top left corner.



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Publications from related fields

When analyzing the topic of your own paper, you should consider how similar it is to the topics followed in other universities (in other disciplines like natural sciences, economics, humanities, etc.). Many topics researched at Poznan University of Technology are interdisciplinary, hence the following proposal of databases from slightly different fields may be useful depending on the topic of your paper.

- **BazEkon** <http://bazekon.icm.edu.pl/>

A database similar to BazTech, but created for economic universities, covers a range of topics related to, among others, management and logistics. Just like BazTech, it does not require logging in and is free. It also has some full text articles as well as articles in English. If a full text is not available, it should be remembered that most of the publications from this database - in printed version - are available at the Library of the University of Economics in Poznan. You can visit the reading room in this library.



BIBLIOTEKA
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Publications from related fields

- **AGRO** <http://agro.icm.edu.pl/>

This is a database for natural sciences universities; records contained within may be slightly less extensive than in BazTech (sometimes abstracts and keywords are missing). Full texts of some articles are available. Access is free of charge. The database is created by the Library of the University of Life Sciences in Poznan, which has full texts of printed versions of articles available in their reading room.

- **BazHum** <http://www.bazhum.pl/>

Bibliographic database of Polish journals in the field of humanities and social sciences. The database collects bibliographic data, registering the entire content of journals - from the first issues to the current ones. The creator of the collection is the Polish History Museum in Warsaw. This database is also free.



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Scopus

The most recommended place for searching for articles. First you need to log in (it is a paid database).

Go to the "E-resources" page: http://library.put.poznan.pl/en/2_en#wyk

Then choose "Alphabetical list" and select "S" and "Scopus" from the list.

Scopus



Interdisciplinary bibliographic and abstract database in the field of mathematics and natural sciences, technical, medical, social and humanities. Contains about **41.000 journals** (including over **5.000 Open Access**), 240.000 books, 1521 book series, over 9 million conference paper and over **28 million patents**.

resource type: **Bibliographic databases, Patents**

It is a bibliographic and abstract database (so it does not contain full texts) with a huge content and a very large topic coverage.

Usually it is a better idea to start your search in Scopus instead of searching in all databases one by one.



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Scopus

Scopus allows you to perform advanced searches (whether using a search window or using logical operators).

Default search. You can add search rows and change search fields as you need.

Advanced search – logical operators

Advanced search

Choose search field

Choose operator

Documents Authors Affiliations **Advanced** Search tips

Enter query string
(TITLE-ABS-KEY(tires) AND TITLE-ABS-KEY(computer aided design))

Outline query Add Author name / Affiliation Clear form Search Q

ALL("Cognitive architectures") AND AUTHOR-NAME(smith)
TITLE-ABS-KEY(*somatic complaint worm?) AND PUBYEAR AFT 1993
SRCTITLE(*field ornith*) AND VOLUME(75) AND ISSUE(1) AND PAGES(53-66)

Documents Authors Affiliations **Advanced** Search tips

Search tires Article title, Abstract, Keywords +

E.g., "Cognitive architectures" AND robots

AND OR AND NOT

Search computer aided design Article title, Abstract, Keywords - +

> Limit Reset form Search Q

Article title, Abstract, Keywords

- All fields
- Article title, Abstract, Keywords
- Authors
- First author
- Source title
- Article title
- Abstract
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Scopus

On the results page, there are multiple (more than in other databases) options for narrowing the number of records, e.g. to specific discipline, year or publication language.

Creating an account in the Scopus database allows you to save your search history and create lists of publications.

Options for narrowing the number of records (like Open Access; Year; Subject; Language; Keyword)

245 document results

(TITLE-ABS-KEY (tires) AND TITLE-ABS-KEY (computer AND aided AND design))

Edit Save Set alert

Search within results...

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Analyze search results

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Document title	Authors	Year	Source	Cited by
1 The Multibody Systems Approach to Vehicle Dynamics (Book)	Blundell, M., Harty, D.	2004	<i>The Multibody Systems Approach to Vehicle Dynamics</i> pp. 1-518	203
2 The most potent organophosphorus inhibitors of leucine aminopeptidase. Structure-based design, chemistry, and activity	Grembecka, J., Mucha, A., Pierpicki, T., Kafarski, P.	2003	<i>Journal of Medicinal Chemistry</i> 46(13), pp. 2641-2655	192
3 The Multibody Systems Approach to Vehicle Dynamics (Book)	Blundell, M., Harty, D.	2014	<i>The Multibody Systems Approach to Vehicle Dynamics</i> pp. 1-741	109
4 DR4-selective tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) variants obtained by structure-based design	Tur, V., Van Der Sloot, A.M., Reis, C.R., (...), Serrano, L., Quax, W.J.	2008	<i>Journal of Biological Chemistry</i> 283(29), pp. 20560-20568	51



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Article descriptions are enriched with a significant number of keywords, bibliography and citations. This gives you the opportunity to expand your own keywords based on the articles you have found, and to reach new publications worth reading based on the bibliography or citations.

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Advances in Engineering Software
Volume 39, Issue 6, June 2008, Pages 459-465

Vehicle crash accident reconstruction based on the elastic-plastic deformation of the auto-body (Article)

Zhang, X.-y., Jin, X.-l., Qi, W.-g., Guo, Y.-z.

Save all to author list

Department of Mechanical Engineering, Shanghai Jiao Tong University, 800 Road, Shanghai, 200240, China

Abstract

The objective of vehicle crash accident reconstruction is to investigate the pre-impact velocity. Elastic-plastic deformation of the vehicle and the collision objects are the important information produced during vehicle crash accidents, and the information can be fully utilized based on the finite element method (FEM), which has been widely used as simulation tools for crashworthiness analyses and structural optimization design. However, the FEM is not becoming popular in accident reconstruction because it needs lots of crash simulation cycles and the FE models are getting bigger, which increases the cost of neural networks as global approximation tool in accident reconstruction is more investigated. Neural networks and artificial neural networks (ANN) for the training process are obtained from typical traffic accident as a validation. The deformation of longitudinal beam is performed by LS-DYNA. The deformation of longitudinal beam is performed according to the simulation results. These results could be used to reconstruct the pre-impact velocity could be got by the trained neural network. The reconstruction of vehicle accidents without tire marks. © 2007 Elsevier

SciVal Top

Topic: Accident Reconstruction, Scale

Prominence percentile: 84%

Author keywords

Accident reconstruction | Crash | Finite element method | Neural networks | Simulation

Indexed keywords

Engineering controlled terms:

Approximation theory | Backpropagation | Computer aided software engineering | Computer simulation | Elastic deformation | Finite element method | Information theory | Neural networks | Plastic deformation | Structural optimization

Engineering uncontrolled terms:

Global approximation | Vehicle crash accident reconstruction

Engineering main heading:

Crashworthiness

Abstract

Keywords
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and from
Scopus

Citations

Metrics | View all metrics >

45 Citations in Scopus
95th percentile

4.20 Field-Weighted Citation
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Collision model simplifications in the
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Aleksandrowicz, P.
(2020) *Transport Problems*

Verification of motor vehicle post accident
insurance claims

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(2020) *Transport Problems*

Methods for fusing uncertain results
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Analysis and reconstruction of the typical
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Zhang, X., Jin, X., Qi, W.
(2006) *Yingyong Jichu yu Gongcheng Kexue
Xuebao/Journal of Basic Science and
Engineering*

Key parameters calculation of auto-body
oriented to accident analysis



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1 Stephan H, Moser A. The collision and trajectory models of PC-CRASH. SAE 960886; 1996.

2 Zhang, X., Jin, X., Qi, W., Shen, J.
[Analysis and reconstruction of the typical traffic accident based on the tire marks](#)
(2006) *Yingyong Jichu yu Gongcheng Kexue Xuebao/Journal of Basic Science and Engineering*, 14 (3), pp. 418-426. Cited 10 times.
[Full Text Elsevier](#)

3 Mchenry BG, Mchenry RR. SMAC97 refinement of the collision algorithm. SAE 970947; 1997.

4 Day TD, Hargens RL. An overview of the EDSMAC4 collision simulation model. SAE 1999-01-0102; 1999.

5 Leden, L., Wikström, P.-E., Gårder, P., Rosander, P.
[Safety and accessibility effects of code modifications and traffic calming of an arterial road](#)
(2006) *Accident Analysis and Prevention*, 38 (3), pp. 455-461. Cited 19 times.
doi: 10.1016/j.aap.2005.11.002
[Full Text Elsevier](#) [View at Publisher](#)


6 Edosomwan, Johnson Aimie, Khalil, Tarek M.
[ACCIDENT PREVENTION IN SLIPS AND FALLS.](#)
(1981) *Professional safety*, 26 (6), pp. 30-35. Cited 2 times.
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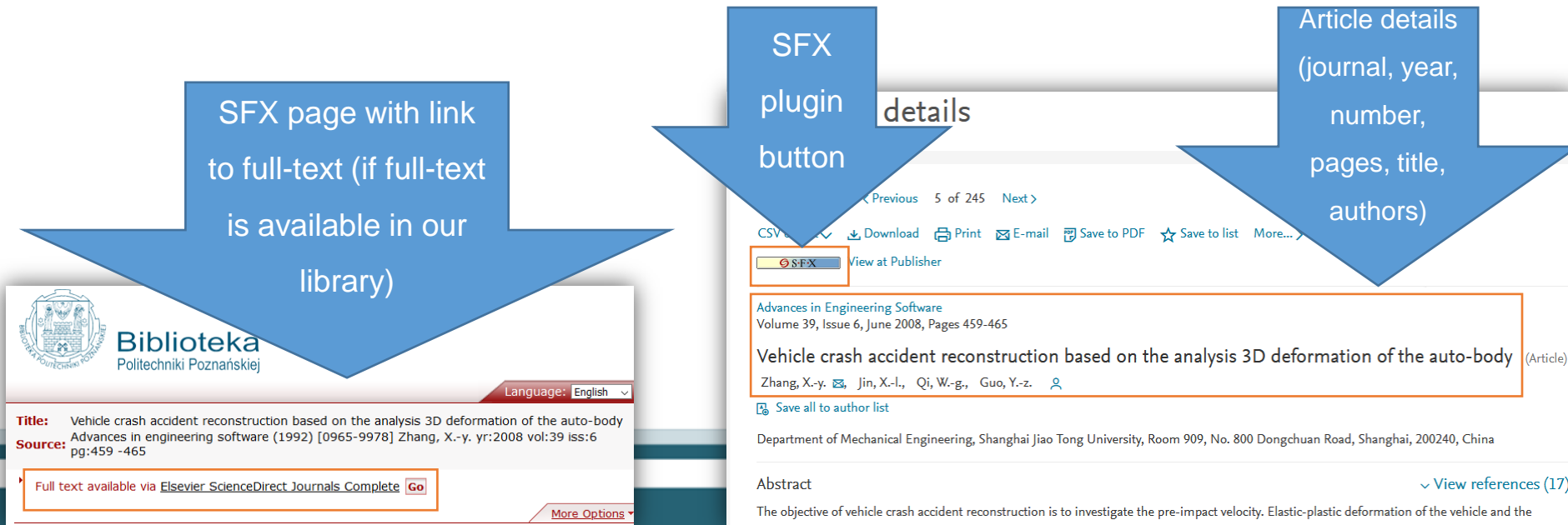
7 Serrano, Á., Conde, C., Rodríguez-Aragón, L.J., Montes, R., Cabello, E.
[Computer vision application: Real time smart traffic light](#)
(2005) *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 3643 LNCS, pp. 525-530. Cited 2 times.
ISBN: 3540290028; 978-354029002-5
doi: 10.1007/11556985_68
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8 Webb, W.
[Black boxes capture car-crash data, controversy](#)
(2005) *EDN*, 50 (10), pp. 33-38. Cited 3 times.
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Scopus – access to full text by using SFX

Full texts appear in this database only partially (only for Open Access ones) but in general Scopus does not contain files with articles. The solution is to use the SFX plugin - the icon  is next to each publication found in Scopus. Clicking on the SFX button will connect you to our E-resources database and search for the full text of a given publication on the publisher's website. We have many Scopus indexed journals in our electronic subscription. If the SFX plugin does not find the full text, we can still check whether the journals are available in printed version in the reading room (using the library catalogue) or eventually order the missing article in Interlibrary Loan. Please note that in the Scopus database, each article has the title of the journal it comes from, year, number, pages. This data is necessary when searching in the catalogue or ordering an article from another library.





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Remember that all publishers, journals and e-book platforms are listed in alphabetical order on the E-resource website:

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The most important databases are:

- Springer
- Wiley
- Taylor & Francis Group
- EBSCOhost
- Elsevier / ScienceDirect
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Johansson, J. Exploring Design Content in CAD-Models and Knowledge Bases Using Graph Theory and Filtering. Machine Dynamics Research. 2017, Vol. 41, No. 4s. 5–15. ISSN 2080-9948.

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by Politechnika Warszawska., Politechnika Warszawska. Wydział Samochodów i Maszyn Roboczych. Instytut Podstaw Budowy Maszyn., Politechnika Warszawska. Wydawnictwa (1958?-1992). Warsaw Technical University Publications, 1984-2009.

2. **Machine Dynamics Research / Warsaw University of Technology. [Institute of Machine Design Fundamentals] ; ed. in chief Włodzimierz Kurnik.**

by Kurnik, Włodzimierz. Red., Politechnika Warszawska. Wydział Samochodów i Maszyn Roboczych. Instytut Podstaw Budowy Maszyn., Politechnika Warszawska. Oficyna Wydawnicza. Oficyna Wydawnicza Politechniki Warszawskiej, 2010-.

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Select „Search” -> „Advanced Search” and select „kolekcja: Prace doktorskie OIN” in the „Limits:” field.

Access to thesis in printed version is possible only on site in the reading room (with the possibility of scanning).

- Scientific Information System of the Poznan University of Technology

<https://sin.put.poznan.pl/>

Most of the new PhD thesis from our university are also available online as part of the Scientific Information System. Access does not require logging in.



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PhD thesis – How to find

Polish Science database <http://nauka-polska.pl/>

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PhD thesis and publishing – common issues

If you are in doubt about the licensing of journals, I encourage you to use the database of publishers' policies maintained by the Library of the Gdansk University of Technology. A group of staff verifies the licences of scientific journals. The database also includes journals from Polish publishers.

<https://mostwiedzy.pl/en/magazine/catalog>



Publishing your own paper

- Think about your article in terms of searchability. Check out informations about „article search engine optimization” and tips and tricks from publishers to gain citations. Below is an example from Wiley:

<https://authorservices.wiley.com/author-resources/Journal-Authors/Prepare/writing-for-seo.html>

- Many article rejections are due to language quality. Programs that support the linguistic preparation of articles such as Grammarly or Writefull can help.
- Sometimes authors have problems with plagiarism warnings (usually false positive ones). Most of the publishers use SimilarityCheck to avoid plagrarism: <https://www.crossref.org/services/similarity-check/>



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Writefull

Currently, our university has purchased premium access to Writefull for Phd students and staff. It is a tool for the linguistic correction of academic texts. Corrections include vocabulary, punctuation, spelling, style and grammatical structures based on linguistic context, using artificial intelligence. After installing the appropriate plug-in, you will need to set up an account with your university domain email address (*@put.poznan.pl / *@doctorate.put.poznan.pl)

Writefull - overview: <https://chmura.put.poznan.pl/s/Xe6ArCmmwRSsoDt>

Writefull - installation in Word Online: <https://chmura.put.poznan.pl/s/Gjp26iDkyYXpTnF>

Writefull webinars - the current schedule is available at: <https://www.writefull.com/webinars#webinars-for-institutions>

Technical requirements:

Writefull for Word (Windows): Microsoft Office 2013 or later; Writefull for Word (Mac or Word Online): Microsoft Office 2016 or later, Microsoft Office 365, Word Online and in the LaTeX editor Writefull in Overleaf: Google Chrome, Chromium, and Brave.

Note: Writefull does not work in Word 2010. However, you can open documents prepared in non-supported programs in the free Word Online and use Writefull this way.



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Publishing in Open Access

- Current grant programs mostly require open publication.
- You should be aware of the costs (Article Processing Charge). The cost of publishing is best planned when preparing a grant application.
- Watch out for predatory journals. Such journals promise high impact factor at low cost (fast review process, low fees). Beware of e-mail invitations to publish.



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Funding Open Access offers for authors from Poznan University of Technology:

- **Springer**
 - 1311 papers in 2022. As of 11/10/2022, 395 articles have been used.
 - Springer help page for authors: <https://www.springer.com/gp/open-access/springer-open-choice/springer-compact/agreements-polish-authors>
- **Elsevier**
 - The amount of articles is currently used up. Anticipated renewal of the program – beginning of 2023.
 - Elsevier help page for authors: <https://www.elsevier.com/about/open-science/open-access/agreements/poland>
- **Emerald**
 - A total of 33 papers are provided for 2022 - for all consortium members.



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Publishing in Open Access

- **IEEE**
 - Poznan University of Technology prepaid the APCs of 10 articles in 2022. There are still 4 vouchers available.
- **American Chemical Society**
 - 346 papers in 2022. As of 11/10/2022, 284 articles have been used.

More information (in Polish):

<https://wbn.icm.edu.pl/>

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Data Management Plans in National Science Center grants

When applying for a grant from the National Science Center, you should prepare a Research Data Management Plan. Such a plan should describe the data (raw/processed) used in a given research project and constituting a basis for further scientific publications. The aim of the plan is to prepare the data for archiving and - if possible - further open sharing.

The details of data sharing are highly dependent on the research that is being carried out. One of the most popular places for research data at our university is the Zenodo repository (run by CERN and the European Commission).

Zenodo: <https://zenodo.org/>

Illustrative sample plans (from Gdansk University of Technology):

<https://pg.edu.pl/openscience/otwarte-dane-badawcze/plan-zarzadzania-danymi/wzory>



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The need and practice of creating bibliographies and footnotes

I encourage you to provide comprehensive footnotes and bibliographies in your papers. This allows you to easily return to previously searched publications and is essential when citing - to avoid breaking copyrights. I particularly recommend the Online Writing Lab website, which - in addition to general advice on writing papers - presents in more detail examples of how to correctly create citations, footnotes and bibliographies:

<https://owl.purdue.edu/owl/>

You can also use reference management software – for example EndNote Online

<https://access.clarivate.com/login?app=endnote>



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