



Colegio de San Juan de Letran
Dominican Avenue, Abucay, Bataan
Library and Media Services

RESEARCH GUIDE: ADVANCED DATABASE SYSTEM

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RESEARCH GUIDES

ADVANCED DATABASE SYSTEMS

I. SCOPE NOTE

*A Database Management System (DBMS) is a system (software) that provides an interface to database for information storage and retrieval. [Wikibooks](https://en.wikibooks.org/wiki/Introduction_to_Database_Systems).
https://en.wikibooks.org/wiki/Introduction_to_Database_Systems*

II. SEARCH AIDS (BT: Broader Term, RT: Related Term, NT: Narrow Term)

BT:

- Database System

RT:

- Data Management
- Information Systems
- System Database
- Knowledge Base
- Data Warehouse System
- Database Management System
- Database Administration System

NT:

- Computer Science
- Information Technology
- Data Warehousing
- Data Mining

III. INFORMATION RESOURCES

A. LIBRARY RESOURCES

Note: For the appropriate access credentials, please contact the Letran Bataan Library

➤ E-JOURNALS

- IEEE Software. https://www.proquest.com/publication/publications_37787
- International Journal of Advanced Research in Computer Science
https://www.proquest.com/publication/publications_1606379
- Informatica Economica. https://www.proquest.com/publication/publications_55108
- Management Science.
https://search.proquest.com/central/publication/publications_40738
- Online Information Review.
https://search.proquest.com/central/publication/publications_27163

- Journal of Science Education and Technology.
https://search.proquest.com/central/publication/publications_2043721
- Journal of Technology.
https://search.proquest.com/central/publication/publications_38628
- Journal of Information System Education.
https://search.proquest.com/central/publication/publications_25848
- IUP Journal of Computer Sciences.
https://search.proquest.com/central/publication/publications_2029993
- Journal System Integration.
https://search.proquest.com/central/publication/publications_2032453
- Computer Technology Journal.
https://search.proquest.com/publication/publications_38406

➤ E-THESES

- Gharghabi, S. (2020). A novel distance measure and semantic segmentation for time series data (Order No. 28093634). Available from ProQuest Central. (2489741098). Retrieved from <https://www.proquest.com/dissertations-theses/novel-distance-measure-semantic-segmentation-time/docview/2489741098/se-2?accountid=190548>
- Amin, A. (2019). Improving retention of stem students using data mining design: A quantitative study (Order No. 13886708). Available from ProQuest Central. (2240073572). Retrieved from <https://www.proquest.com/dissertations-theses/improving-retention-stem-students-using-data/docview/2240073572/se-2?accountid=190548>
- Hu, Y. (2019). Efficient algorithms for mining healthcare data (Order No. 27665815). Available from ProQuest Central. (2336371083). Retrieved from <https://www.proquest.com/dissertations-theses/efficient-algorithms-mining-healthcare-data/docview/2336371083/se-2?accountid=190548>
- Khojah, M. (2018). Design, implementation, and evaluation of Emerge2Maturity, an innovative serious game that uses simulation to depict the data warehouse development (Order No. 10810051). Available from ProQuest Central. (2051763738). Retrieved from <https://www.proquest.com/dissertations-theses/design-implementation-evaluation-emerge2maturity/docview/2051763738/se-2?accountid=190548>
- Homayouni, H. (2018). An approach for testing the extract-transform-load process in data warehouse systems (Order No. 10689298). Available from ProQuest Central. (2055766176). Retrieved from <https://www.proquest.com/dissertations-theses/approach-testing-extract-transform-load-process/docview/2055766176/se-2?accountid=190548>
- Piri, S. (2017). Developing and deploying data mining techniques in healthcare (Order No. 10601600). Available from ProQuest Central. (2031167169). Retrieved from <https://www.proquest.com/dissertations-theses/developing-deploying-data-mining-techniques/docview/2031167169/se-2?accountid=190548>
- Alghamdi, D. M. M. (2017). A data mining based approach for burglary crime rate prediction (Order No. 10644586). Available from ProQuest Central. (1940300267). Retrieved from <https://www.proquest.com/dissertations-theses/data-mining-based->

- [approach-burglary-crime-rate/docview/1940300267/se-2?accountid=190548](https://search.proquest.com/docview/1940300267/se-2?accountid=190548)
- Pang, G. (2015). Scalable transactions for scalable distributed database systems (Order No. 3733329). Available from ProQuest Central. (1730862919). Retrieved from <https://search.proquest.com/docview/1730862919?accountid=190548>
- Chen, T. (2015). Improving the quality of large-scale database-centric software systems by analyzing database access code. Piscataway: The Institute of Electrical and Electronics Engineers, Inc. (IEEE). Retrieved from
- Basantaval, P. (2010). Parallel and distributed systems; data on parallel and distributed systems. Computer Weekly News Retrieved from <https://search.proquest.com/docview/199189172?accountid=190548>
- Johansson, J. M., March, S. T., & Naumann, J. D. (2003). Modeling network latency and parallel processing in distributed database design. Decision Sciences, 34(4), 677-706. Retrieved from <https://search.proquest.com/docview/198110627?accountid=190548>
- <https://search.proquest.com/docview/1690358904?accountid=190548>
- Shi, H. (1998). Database management system modeling for construction project cost and time data process (Order No. 1393567). Available from ProQuest Central. (304439737). Retrieved from <https://search.proquest.com/docview/304439737?accountid=190548>

B. OPEN ACCESS

➤ FREE E-BOOKS

- Bhatia, Parteek (2019). Data Mining and Data Warehousing: Principles and Practical Techniques. Cambridge, UK: Cambridge University Press.
<https://www.pdfdrive.com/data-mining-and-data-warehousing-principles-and-practical-techniques-d189868078.html>
- Tan, Ying, Shi, Yuhui (Eds.). (2016). Data Mining and Big Data: First International Conference, DMBD 2016, Bali, Indonesia, June 25-30, 2016 Proceedings. Switzerland: Springer International Publishing.
<https://www.pdfdrive.com/data-mining-and-big-data-d34626752.html>
- Dean, Jared (2014). Big Data, Data Mining and Machine Learning: Value Creations for Business Leaders and Practitioners . Hoboken, NJ: John Wiley & Sons.
<https://www.pdfdrive.com/big-data-data-mining-and-machine-learning-e33454197.html>
- Witten, Ian H., Frank, Eibe, Hall, Mark A. (2011). Data Mining: Practical Machine Learning Tools and Techniques (3rd ed.). Amsterdam: Elsevier.
<https://www.pdfdrive.com/data-mining-practical-machine-learning-tools-and-techniques-3rd-edition-manteshpdf-e55383111.html>
- Coronel, Carlos. (2011). Database Systems: Design, Implementation, and Management, 9th edition. Australia: Cengage Learning. <https://www.pdfdrive.com/database-systems-design-implementation-and-management-with-d6663225.html>
- Tutorials Point. (2015). Database Management System. India: Simply Learning.
<https://www.pdfdrive.com/database-management-system-dbms-tutorial-tutorials-point-d10969892.html>
- Rob, Peter and Coronel, Carlos. (2009). Database Systems: Design, Implementation, and Management, 8th edition. Australia: Thomson Course Technology.

<https://www.pdfdrive.com/database-systems-design-implementation-and-management-eighth-edition-d47835376.html>

- Rahimi, Saeed K. and Haug, Frank S. (2010). Distributed Database Management Systems A Practical Approach. New Jersey: John Wiley & Sons, Inc. <https://www.pdfdrive.com/distributed-database-management-systems-a-practical-approach-d18824069.html>

➤ FREE E-JOURNALS

- International Journal of Database Management System. <http://airccse.org/journal/ijdms/index.html>
- Journal of Databased Management. <https://www.igi-global.com/journal/journal-database-management/1072>
- The Journal of Biological Databases and Curation. <https://academic.oup.com/database>
- Journal of Analytical Science and Technology. <https://jast-journal.springeropen.com/>
- International Journal of Enterprise System Integration and Interoperability. <https://www.inderscience.com/jhome.php?icode=ijesii>

➤ FREE E-THESES

- Phua, C. W. C. (2021). Data mining in resilient identity crime detection. (Thesis). Monash University. Retrieved from <https://doi.org/10.26180/14875332.v1>
- Ganji, R. K. (2020). A website which integrates various components for machine learning and data mining through its modular data and pipelining concept. (Thesis). California State University – Northridge. Retrieved from <http://hdl.handle.net/10211.3/216202>
- Keshri, S. (2020). Integrating product data to enterprise data warehouse. (Masters Thesis). Tampere University. Retrieved from <https://trepo.tuni.fi/handle/10024/123408>
- Casturi, N. V. (2019). Enterprise Data Mining & Machine Learning Framework on Cloud Computing for Investment Platforms. (Doctoral Dissertation). Georgia State University. Retrieved from https://scholarworks.gsu.edu/cs_diss/150
- Barth, K. (2018). An analysis of semantic data quality deficiencies in a national data warehouse: a data mining approach. (Masters Thesis). University of South Africa. Retrieved from <http://hdl.handle.net/10500/25576>
- Homayouni, H. (2018). An Approach for Testing the Extract-Transform-Load Process in Data Warehouse Systems. (Thesis). Colorado State University. Retrieved from <http://pqdtopen.proquest.com/#viewpdf?dispub=10689298>
- Thun, J. (2017). Automating debugging through data mining. (Thesis). KTH. Retrieved from <http://urn.kb.se/resolve?urn=urn:nbn:se:kth:diva-203244>
- Fredstam, M. (2019). Comparing database management systems with SQL Alchemy: A quantitative study on database management systems. (Thesis). Linköping University Linköping University. Retrieved from <http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-155648>
- Seidi, N. (2014). Document-Based Databases In Platform SW Architecture For Safety Related Embedded System. (Thesis). , Department of Software Engineering. Retrieved from <http://urn.kb.se/resolve?urn=urn:nbn:se:bth-3122>

- Matinolli, I. (. (2016). Designing, implementing and evaluating a database for a software testing team. (Master's Thesis). University of Oulu. Retrieved from <http://urn.fi/URN:NBN:fi:oulu-201612033204>
- Ozmen, O. (2010). Automated Storage Layout for Database Systems. (Thesis). University of Waterloo. Retrieved from <http://hdl.handle.net/10012/5367>
- Wheeler, J. T. (2017). Extracting a Relational Database Schema from a Document Database. (Thesis). University of North Florida. Retrieved from <https://digitalcommons.unf.edu/etd/730>

C. PROFESSIONAL ORGANIZATIONS

- Philippine Computer Society. <https://www.philippinecomputersociety.org/>
- PSITE – NCR (Philippine Society of Information Technology Educators Foundation, Inc. <https://psite-ncr.org/>
- National ICT Confederation of the Philippines. <https://psite-ncr.org/>
- InfoComm Technology Association of the Philippines. <http://www.itaphil.com/index.html#/>
- Computer Professional for Social Responsibility. <http://cpsr.org/>
- Association of Software Professionals. <https://asp-software.org/www/>
- Association for Computing Machinery. <https://www.acm.org/>
- Association for Information Technology Professionals. <https://www.baylor.edu/business/mis/index.php?id=92998>
- Association of Independent Information Professionals (AIIP). <https://www.aiip.org/>
- IEEE Computer Society. <https://www.computer.org/membership>

D. OTHER RELATED WEB PORTALS

- InformationWeek News Connects The Business Technology Community. <https://www.informationweek.com/>
- Info World. <https://www.infoworld.com/>
- Computer Weekly. <https://www.computerweekly.com/news>
- Fingent. <https://www.fingent.com/blog/>
- Tech Republic. <https://www.techrepublic.com/>
- Reddit. <https://www.reddit.com/r/InformationTechnology/>
- Elligense. <https://medium.com/elligense-team>
- Tech Community. <https://techcommunity.microsoft.com/t5/itops-talk/ct-p/ITOpsTalk>

E. RELATED RESEARCH GUIDES

- Fordham University Libraries Lib Guides. <https://fordham.libguides.com/ElectronicResources/OpenAccess>
- Dalhousie University Research Guide. <https://dal.ca.libguides.com/c.php?g=257042&p=1716320>
- Golden gate University Research Guide. <https://ggu.libguides.com/c.php?g=106861&p=693879>
- Mississippi State University Research Guide. <https://guides.library.msstate.edu/c.php?g=578108&p=3987898>
- University of Texas at El Paso Research Guide. <https://libguides.utep.edu/c.php?g=430080&p=2932358>

IV. TUTORIALS

- Basic Vocabulary. Introduction to Data Mining Part 1.
https://www.youtube.com/watch?v=f7NfO16l04U&list=PL8eNk_zTBST-gN6Y5E-5FZdARXjglYpyT
- Data Attributes (Part 1). Introduction to Data Mining Part 2.
https://www.youtube.com/watch?v=hu7iGGnzq3Y&list=PL8eNk_zTBST-gN6Y5E-5FZdARXjglYpyT&index=2
- Data Attributes (Part 1). Introduction to Data Mining Part 3.
https://www.youtube.com/watch?v=xrFtN_UJhYc&list=PL8eNk_zTBST-gN6Y5E-5FZdARXjglYpyT&index=3
- Basic Data Types. Introduction to Data Mining Part 4.
https://www.youtube.com/watch?v=dyYKQpFJOZQ&list=PL8eNk_zTBST-gN6Y5E-5FZdARXjglYpyT&index=4
- What is Data Warehouse? https://www.youtube.com/watch?v=AHR_7jFCMeY
- Intellipaat. <https://intellipaat.com/blog/>
- Galido Networks. <https://galido.net/blog/best-freelancing-websites-to-get-remote-work-in-2020/>
- ZD Net. <https://www.zdnet.com/>
- Paessler. <https://blog.paessler.com/>
- Value Coders. <https://www.valuecoders.com/blog/>

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