



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

RESEARCH GUIDE: MANAGEMENT SCIENCE

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RESEARCH GUIDES

MANAGEMENT SCIENCE

I. SCOPE NOTE

A problem-solving process used by an interdisciplinary team to develop mathematical models that represent simple-to-complex functional relationships and provide management with a basis for decision-making and a means of uncovering new problems for quantitative analysis".
businessmanagementideas.com

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

BT:

- Management

RT:

- Decision Matrices
- Decision Trees
- Mathematical Programming
- Branch and Bound Algorithm
- Network Models
- Dynamic Programming
- Markov Chains
- Game Theory
- Inventory Models
- Waiting Line Models
- Simulation Models
- Mathematical Tools
- Management Techniques
- Operations Research
- Industrial Engineering
- Systems Analysis
- Management Information Systems

NT:

- Mathematical Models
- Problem Solving
- Heuristic Programming
- Management Games
- Systems Simulation
- Artificial Intelligence
- Monte Carlo Simulation
- PERT
- CPM
- Algorithms

- Non-linear Relationships
- Regression
- Classifications
- Categorical Variable Decision Tree
- Continuous Variable Decision Tree

III. INFORMATION RESOURCES

A. LIBRARY RESOURCES

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

➤ E-JOURNALS

- Business Quarterly (pre-1986).
https://www.proquest.com/central/publication/publications_47900
- Human Relations. https://www.proquest.com/central/publication/publications_41702
- The American Behavioral Scientist (1986-1994).
https://www.proquest.com/central/publication/publications_40594
- Management Research Review: MRN.
https://www.proquest.com/central/publication/publications_30372
- Systems Research and Behavioral Science.
https://www.proquest.com/central/publication/publications_33713
- Management Science.
https://search.proquest.com/publication/publications_40737?accountid=190548
- Measuring Business Excellence.
https://search.proquest.com/publication/publications_25622?accountid=190548
- MIT Sloan Management Review.
https://search.proquest.com/publication/publications_26142?accountid=190548
- The Journal of Operational Research Society.
https://search.proquest.com/publication/publications_31386?accountid=190548
- Journal of Management History.
https://search.proquest.com/publication/publications_26198?accountid=190548
- Interfaces.
https://search.proquest.com/publication/publications_6197?accountid=190548
- Organization and Management.
https://search.proquest.com/publication/publications_2026635?accountid=190548
- Management International.
https://search.proquest.com/publication/publications_25945?accountid=190548
- Journal of Big Data.
https://search.proquest.com/publication/publications_2046140?accountid=190548

➤ E-THESES

- Verma, R. (1996). A model for effective operations management integrating constrained-optimization theory and customer choice patterns (Order No. 9630589). Available from

- ProQuest Central. (304298244). Retrieved from <https://www.proquest.com/dissertations-theses/model-effective-operations-management-integrating/docview/304298244/se-2?accountid=190548>
- Swift, I. (2011). The perceived effect of hidden costs on the operational management of information technology outsourcing: A qualitative study (Order No. 3515759). Available from ProQuest Central. (1023381819). Retrieved from <https://www.proquest.com/dissertations-theses/perceived-effect-hidden-costs-on-operational/docview/1023381819/se-2?accountid=190548>
 - Middleton, L. (2020). Science communication and coproduction: Applying the theory of motivated information management to the science-policy interface (Order No. 28026011). Available from ProQuest Central. (2441616607). Retrieved from <https://search.proquest.com/docview/2441616607?accountid=190548>
 - Lindstrom, R. S. (2000). Science and management: Popular knowledge, work, and authority in the twentieth-century united states (Order No. 3020246). Available from ProQuest Central. (304617358). Retrieved from <https://search.proquest.com/docview/304617358?accountid=190548>
 - Shackeroff, J. M. (2008). The historical ecology and social-ecological systems of kona coast coral reefs: Towards 'peopled' approaches to marine science and management (Order No. 3297673). Available from ProQuest Central. (304653439). Retrieved from <https://search.proquest.com/docview/304653439?accountid=190548>
 - Alexander, J. D. (2011). Advancing landbird conservation on western federally managed lands with management- and policy-relevant science (Order No. 3487588). Available from ProQuest Central. (914433573). Retrieved from <https://search.proquest.com/docview/914433573?accountid=190548>
 - Wimmer, Hayden (2013). Knowledge guided evolutionary algorithms in financial investing (Order No. 3594636). Available from ProQuest Central. (866321010). Retrieved from <https://search.proquest.com/docview/1442798539/94A35F2560D24247PQ/16?accountid=190548>
 - Scully-Allison, C. (2019). Keystone: A streaming data management model for the environmental sciences (Order No. 13886598). Available from ProQuest Central. (2273201670). Retrieved from <https://search.proquest.com/docview/2273201670?accountid=190548>
 - Wickhorst, V. (2005). A four-act play: Philosophy and science. the impact on management theory and practice (Order No. 3173098). Available from ProQuest Central. (305012166). Retrieved from <https://search.proquest.com/docview/305012166?accountid=190548>
 - Baskaya, Bengu (2011). Statistical analysis of decision trees (Order No. 1493089). Available from ProQuest Central. (866321010). Retrieved from <https://search.proquest.com/docview/866321010/94A35F2560D24247PQ/1?accountid=190548>
 - Li, S. (2010). The Marketing/Operations management interface: Toward a science of delivering value (Order No. 3469299). Available from ProQuest Central. (893131510). Retrieved from <https://search.proquest.com/docview/893131510?accountid=190548>
 - Jin, Y. (2013). Data science in supply chain management: Data-related influences on demand planning (Order No. 3589055). Available from ProQuest Central. (1428739160). Retrieved from <https://search.proquest.com/docview/1428739160?accountid=190548>

B. OPEN ACCESS

➤ FREE E-BOOKS

- Anderson, David R. (2012). An Introduction to Management Science: Quantitative Approaches to Decision Making, Revised Thirteenth Edition. Australia: Cengage Learning. <https://www.pdfdrive.com/an-introduction-to-management-science-d27090870.html>
- Ravindran, Ravi A. (2008). Operations research and management science handbook. Boca Raton: CRC Press. <https://www.pdfdrive.com/operations-research-and-management-science-handbook-the-operations-research-series-d164947777.html>
- Birge, John R. (2008). Handbooks in Operations Research and Management Science. Amsterdam: Elsevier. <https://www.pdfdrive.com/handbooks-in-operations-research-and-management-science-volume-15-financial-engineering-handbooks-in-operations-research-and-management-science-d184459283.html>
- Taylor, Bernard III W. (2006). Introduction to Management Science, Ninth Edition. Virginia Polytechnic Institute and State University. <https://www.pdfdrive.com/introduction-to-management-science-ninth-edition-d18717672.html>

➤ FREE E-JOURNALS

- Open Journal of Management Science (OJMS). <https://www.openjournalsnigeria.org.ng/journals/index.php/ojms>
- Journal of Management (JOM). Journal of Management. <https://journals.sagepub.com/home/jom>
- Asian Journal of Management Science and Applications. <https://www.inderscience.com/jhome.php?jcode=ajmsa>
- Social & Management Sciences. <https://www.cscjournals.org/library/social-management-science.php>
- International Journal of Management Science and Engineering Management. <https://www.tandfonline.com/toc/tmse20/current>
- Business & Management Journals. <https://www.omicsonline.org/business-and-management-journals.php>
- Management Journals. <https://www.omicsonline.org/management-journals.php>
- Management Science. <https://pubsonline.informs.org/journal/mnsc>

➤ FREE E-THESES

- Barton, J. A. (2019). Systems Thinking: Philosophy, Methodology and Applications to Knowledge Management. (Thesis). Monash University. Retrieved from <http://hdl.handle.net/10.26180/5d09cd8c1eb98>
- Nantiyakul., R. (2021). Using a design-science approach for effective corporate performance management systems development. (Thesis). Monash University. Retrieved from <https://doi.org/10.26180/14929059.v1>
- Oduro-Marfo, E. (2021). Master of science in project management. (Thesis). Kwame Nkrumah University of Science and Technology. Retrieved from <http://dspace.knust.edu.gh:8080/jspui/handle/123456789/14152>

- Brudan, A. (2017). Towards an integrated performance management model: the challenge of linking organisational, operational, individual and personal performance. (Doctoral Dissertation). University of Melbourne. Retrieved from <http://hdl.handle.net/11343/216857>
- Bremer, S. R. (2011). Exploring a 'post-normal' science-policy interface for integrated coastal management. (Doctoral Dissertation). Massey University. Retrieved from <http://hdl.handle.net/10179/3406>
- Harrison, J. (2013). Rethinking the science-policy relationship: Boundary organisations and the Motueka Integrated Catchment Management Programme. (Thesis). Lincoln University. Retrieved from <http://hdl.handle.net/10182/5263>
- Alexander, J. D. (2012). Advancing landbird conservation on western federally managed lands with management- and policy-relevant science. (Thesis). Prescott College. Retrieved from <https://www.proquest.com/dissertations-theses/advancing-landbird-conservation-on-western/docview/914433573/se-2?accountid=190548>
- Olson, Bill A. (2012). Problem Management: A System Engineering Management Framework. The George Washington University. <https://www.proquest.com/dissertations-theses/problem-management-system-engineering-framework/docview/937046804/se-2?accountid=190548>

C. PROFESSIONAL ORGANIZATIONS

- American Production and Inventory Control Society. <http://www.apics.org/>
- Chartered Institute of Procurement & Supply. <https://www.cips.org/>
- Supply Chain Management Association. <https://www.supplychaincanada.com/en>
- Canadian Operational Research Society. <https://www.cors.ca/>
- Institute for Operations Research and Management Sciences. <https://www.informs.org/>

D. OTHER RELATED WEB PORTALS

- Management Science. <https://www.informs.org/Publications/INFORMS-Journals/Management-Science>
- Management Science Letters. <http://growingscience.com/msl/msl.html>
- Management Science. <https://www.britannica.com/topic/management-science>
- Optimization Methods in Management Science. <https://ocw.mit.edu/courses/sloan-school-of-management/15-053-optimization-methods-in-management-science-spring-2013/tutorials/>
- Tutorials in Operation Research. <https://pubsonline.informs.org/series/educ>
- What is Management Science-and Perspective Analytics?. <https://www.solver.com/what-is-management-science>
- Management Science Models and Techniques. <https://www.claydesk.com/courses/management-science-models-and-techniques/>

E. RELATED RESEARCH GUIDES

- Dalhousie University. <https://dal.ca/libguides.com/c.php?g=257042&p=1716320>
- Library of Congress. <https://guides.loc.gov/business-management>
- Yale University Library. <https://guides.library.yale.edu/business>
- NWU. <https://libguides.nwu.ac.za/management-sciences>

- UCLA Library. <https://guides.library.ucla.edu/data-management-sciences>
- Georgia State University. <https://research.library.gsu.edu/c.php?g=115288&p=754706>
- University of Nebraska Omaha. <https://libguides.unomaha.edu/libraryscience>

IV. TUTORIALS

- Management Science Tutorial.
https://www.youtube.com/channel/UCwCsjVR_TZZGqiUtAaEcHUw
- Introduction to Management Science | Management Science (Chapter 1).
<https://www.youtube.com/watch?v=i2Equl2n2zc>
- Introduction to Management Science. https://www.youtube.com/watch?v=SOI_P2Gf2rM
- Learn Principles of the Scientific Management.
<https://www.youtube.com/watch?v=dLUb62LLX9o>
- Management Principles Tutorial.
https://www.tutorialspoint.com/management_principles/index.htm
- Management Science for Business: Excel Tutorial & Lecture Notes 1-16, chapter 1-6.
<https://www.studocu.com/en-ca/document/mcmaster-university/management-science-for-business/lecture-notes/management-science-for-business-excel-tutorial-lecture-notes-1-16-chapter-1-6/187504/view>
- IFORS Tutorial Lecture. <https://www.ifors.org/ifors-tutorial-lecture/>
- Management as Science. <https://www.youtube.com/watch?v=MkKK4ciGh00>
- Introduction to Management Science | Management Science (Chapter 1).
<https://www.youtube.com/watch?v=i2Equl2n2zc>
- An Introduction to Linear Programming | Management Science (Chapter 2).
<https://www.youtube.com/watch?v=XssJmmTUlds>

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