



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

RESEARCH GUIDE: COMMUNICATIONS

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RESEARCH GUIDES

COMMUNICATIONS

I. SCOPE NOTE

The various systems used for sending especially electronic information, such as radio, television, telephone, and computer networks. [dictionary.cambridge](#)

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

BT:

- Communication

RT:

- Communication systems
- Modulation and coding techniques
- Data communications
- Data communication system design
- Computer network models
- Coding theory
- Amplitude modulation
- Single-sideband techniques
- Frequency modulation
- Radiation
- Propagation of waves
- Digital modulation
- Broadband communication system
- Digital communication systems
- Digital transmission
- Transmission media
- Antenna system and design

NT:

- Bandwidth
- Filters
- Linear modulation
- Angle modulation
- Phase locked loop
- Pulse modulation
- Noise analysis
- Radio receivers and transmitters
- Multiplexing techniques
- Random variables
- Bit error rate

- Matched filter
- Generalized orthonormal signals
- Signal space
- Information measures-entropy
- Channel capacity
- Data compression
- Terminal control units
- Modem
- Multiplexers
- Concentrators
- Front-end processors
- Radio wave propagation wire
- Cable transmission system
- Fiber-optic transmission system

III. INFORMATION RESOURCES

A. LIBRARY RESOURCES

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

➤ E-JOURNALS

- IOP Conference Series. Materials Science and Engineering.
https://www.proquest.com/publication/publications_4998670
- The Institute of Electrical and Electronics Engineers, Inc. (IEEE) Conference Proceedings.
https://www.proquest.com/publication/publications_2032052
- IEEE Transactions of Profession Communication.
https://search.proquest.com/central/publication/publications_38158
- Applied Mechanics & Materials.
https://search.proquest.com/central/publication/publications_2029177
- Communication Education.
https://search.proquest.com/central/publication/publications_1271
- Technical Communication.
https://search.proquest.com/central/publication/publications_49110
- ELT Journal. https://search.proquest.com/central/publication/publications_40843

➤ E-THESES

- Evert, A. F. (2011). Students' perceptions of communications provided by faculty and peer leaders, course motivation, and final project innovativeness in capstone courses (Order No. 3474656). Available from ProQuest Central. (898971681). Retrieved from <https://www.proquest.com/dissertations-theses/students-perceptions-communications-provided/docview/898971681/se-2?accountid=190548>
- Madi, M. S. (2005). Engineering project management: A qualitative descriptive study on using new technologies to measure team performance (Order No. 3198876). Available

- from ProQuest Central. (305343113). Retrieved from <https://www.proquest.com/dissertations-theses/engineering-project-management-qualitative/docview/305343113/se-2?accountid=190548>
- Murray, H. C. (2019). Determining barriers to leadership communication challenges in the clinical engineering departments and ascertaining pathways for efficient transfer of information (Order No. 22588206). Available from ProQuest Central. (2283364394). Retrieved from <https://www.proquest.com/dissertations-theses/determining-barriers-leadership-communication/docview/2283364394/se-2?accountid=190548>
 - Al Bataineh, M. (2010). Analysis of genomic translation using a communications theory approach (Order No. 3435813). Available from ProQuest Central. (822457384). Retrieved from <https://www.proquest.com/dissertations-theses/analysis-genomic-translation-using-communications/docview/822457384/se-2?accountid=190548>
 - Godbole, A. A. (2007). Exploring key issues and strategies for adopting nanotechnology in wireless communication devices (Order No. 3281486). Available from ProQuest Central. (304705199). Retrieved from <https://search.proquest.com/docview/304705199?accountid=190548>
 - Forlano, L. (2008). When code meets place: Collaboration and innovation at WiFi hotspots (Order No. 3333485). Available from ProQuest Central. (304625179). Retrieved from <https://search.proquest.com/docview/304625179?accountid=190548>
 - Minnis, C. W. (2010). Data communications within the emergency services: A mixed methods study of attempts to improve data communications systems interoperability and information sharing issues (Order No. 3427250). Available from ProQuest Central. (807422018). Retrieved from <https://search.proquest.com/docview/807422018?accountid=190548>
 - Tough, D. T. (2009). Developing a consensus -driven, core competency model to shape future audio engineering technology curriculum: A web-based modified delphi study (Order No. 3390728). Available from ProQuest Central. (305128843). Retrieved from <https://search.proquest.com/docview/305128843?accountid=190548>
 - Qu, H. (2007). Integrated wireless-based information processing and communications for e -healthcare system: Design, analysis, optimization and resource protection (Order No. 3245315). Available from ProQuest Central. (304795011). Retrieved from <https://search.proquest.com/docview/304795011?accountid=190548>

B. OPEN ACCESS

➤ FREE E-BOOKS

- Kennedy. George. (1993). Electronic Communication system, 4th edition. New Delhi: McGraw Hill. <https://www.pdfdrive.com/electronic-communication-systemgeorgekennedy-d33410072.html>
- Croft, Anthony. (2017). Engineering Mathematics A Foundation for Electronic, Electrical, Communications and Systems Engineers. United Kingdom: Pearson Education. <https://www.pdfdrive.com/engineering-mathematics-a-foundation-for-electronicelectrical-communications-and-systems-engineers-d167744522.html>

- Graham, Adnan W. (2011). Communication, radar and electronic warfare. New Jersey: John Wiley & Sons, Inc. <https://www.pdfdrive.com/communications-radar-electronicwarfare-uscrow-d9479454.html>

➤ FREE E-JOURNALS

- Journal of Communications Technology and Electronics. <https://www.springer.com/journal/11487>
- International Journal of Computer and Communication Engineering (IJCCCE). <http://www.ijcce.org/>
- Journal of Communication Engineering & Systems (JoCES). <http://stmjournals.com/Journal-of-Communication-Engineering-and-Systems.html>
- Electrical, Control and Communication Engineering. <https://sciendo.com/journal/ECCE>
- International Journal of Communication System. <https://onlinelibrary.wiley.com/journal/10991131>
- Electrical, Control and Communication Engineering. <https://content.sciendo.com/view/journals/ecce/ecce-overview.xml>

➤ FREE E-THESES

- Scata', M. (2012). Security Analysis of ICT Systems based on Bio-Inspired Models. (Thesis). Università degli Studi di Catania. Retrieved from <http://hdl.handle.net/10761/1095>
- De Leo, E. (2014). Introducing communication and networking technologies into lab-on-chip systems. (Thesis). Università degli Studi di Catania. Retrieved from <http://hdl.handle.net/10761/1494>
- Donvito, L. (2015). A Microfluidic Communication Network For Programmable Passive Droplet-Based Devices: Design, Modeling and Analysis. (Thesis). Università degli Studi di Catania. Retrieved from <http://hdl.handle.net/10761/3855>
- Li, Q. (2011). On the capacity and diversity of cooperative wireless communication networks. (Thesis). Nanyang Technological University. Retrieved from <http://hdl.handle.net/10356/43520>
- Esteves, H. J. B. (2018). Integration of optical communications in an underwater docking station. (Thesis). Universidade do Porto. Retrieved from <https://www.rcaap.pt/detail.jsp?id=oai:repositorio-aberto.up.pt:10216/111139>
- Robson, S. (2012). An integrated monitoring and communication device for use on 11 kV overhead lines. (Doctoral Dissertation). Cardiff University. Retrieved from <http://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.567479>
- Gopsill, J. A. (2014). A social media approach to support engineering design communication. (Doctoral Dissertation). University of Bath. Retrieved from <https://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.619150>
- Elsabae, R. G. M. (2018). Optimization techniques for reliable data communication in multi-antenna wireless systems. (Thesis). Loughborough University. Retrieved from <http://hdl.handle.net/2134/34613>
- Jakobsson, C. (2017). SDR Implementation for Satellite Communication. (Thesis). KTH. Retrieved from <http://urn.kb.se/resolve?urn=urn:nbn:se:kth:diva-214741>

- Sanders, D. R. (2016). Maximum Power Point Tracking and Communications for Solar Powered Vehicles. (Thesis). Southern Illinois University at Edwardsville. Retrieved from <https://www.proquest.com/dissertations-theses/maximum-power-point-tracking-communications-solar/docview/1767232039/se-2?accountid=190548>
- Davies, P. (2018). Radio network algorithms for global communication. (Doctoral Dissertation). University of Warwick. Retrieved from <https://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.801131>
- Chase, R. (2013). Microcontroller based handheld acoustic communication & power delivery through metallic barriers. (Thesis). Rensselaer Polytechnic Institute. Retrieved from <https://www.proquest.com/dissertations-theses/microcontroller-based-handheld-acoustic/docview/1465433727/se-2?accountid=190548>
- Jakobsson, M. (2014). Powerline Communication Hardware. (Thesis). Chalmers University of Technology. Retrieved from <http://hdl.handle.net/20.500.12380/203828>
- Bodin, J. (2010). High speed communication. (Thesis). Chalmers University of Technology. Retrieved from <http://hdl.handle.net/20.500.12380/153557>

C. PROFESSIONAL ORGANIZATIONS

- The International Society for Optics & Photonics. <https://spie.org/>
- Association for Computing Machinery. <https://www.acm.org/>
- Audio Engineering Society. <https://aes2.org/>
- Electric Power Research Institute. <https://www.epri.com/>
- National Society for Professional Engineers. <https://www.nspe.org/>
- The Institution of Engineering & Technology. <https://www.theiet.org/>
- American Society for Engineering Education. <http://www.asee.org/>
- IEEE Communication Society. <https://www.comsoc.org/>

D. OTHER RELATED WEB PORTALS

- Circuit Lab. <https://www.circuitlab.com/>
- Hackaday. <https://hackaday.com/about/>
- Virtual Labs. <https://www.vlab.co.in/>
- MIT Open Courseware. <https://ocw.mit.edu/index.htm>
- Makezine. <https://makezine.com/>
- Electronics Weekly. <https://www.electronicweekly.com/>
- Tutorials Point. <https://www.tutorialspoint.com/index.htm>
- Electronics Foru. <https://www.electronicsforu.com/>
- Electronics Hub. <https://www.electronicshub.org/>
- All about Circuits. <https://www.allaboutcircuits.com/>
- Electronic Design. <https://www.electronicdesign.com/>
- Open Electronics. <https://www.open-electronics.org/>

E. RELATED RESEARCH GUIDES

- University of Washington. <https://guides.lib.uw.edu/research/ece>
- University Houston Library. <https://guides.lib.uh.edu/ece>

- University of Melbourne. https://unimelb.libguides.com/elec_eng
- Bloomsburg Library. <https://guides.library.bloomu.edu/c.php?g=318635&p=2127019>
- Northwestern Library. <https://libguides.northwestern.edu/eecs>

IV. TUTORIALS

- Principles of Communication Tutorial.
https://www.tutorialspoint.com/principles_of_communication/index.htm
- Analog Communication Tutorial.
https://www.tutorialspoint.com/analog_communication/index.htm
- Communication – System. <https://www.youtube.com/watch?v=dOLMLC0nZWc>
- Introduction to Communication System. <https://www.youtube.com/watch?v=JMV4ywAJug>
- Lecture - 1 Introduction to Communication Engineering.
<https://www.youtube.com/watch?v=TPm0XSPxld8>
- Communication Tutorials. <https://electronicspost.com/communication-tutorials/>
- COMMUNICATION SYSTEMS.
<https://www.learnbywatch.com/learn/electronics/communication-systems/>
- Communication Systems.
<https://www.mepits.com/tutorial/39/communication/communication-system>
- Tutorials Point. https://www.tutorialspoint.com/principles_of_communication/index.htm
- Wiz IQ. <https://www.wiziq.com/tutorials/communication-engineering>
- Electronics Post. <https://electronicspost.com/communication-tutorials/>
- Wisdom Jobs. <https://www.wisdomjobs.com/e-university/principles-of-communication-tutorial2513.html>
- Mepits. <https://www.mepits.com/tutorial/39/communication/communication-system>

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