

## SUBJECT GUIDE: COMPUTER SCIENCE / ENGINEERING & ELECTRICAL ENGINEERING

[www.library.unic.ac.cy](http://www.library.unic.ac.cy)

### Print Material

#### Search Terms

Materials (books, case studies, conference material) can be found using the **UNIC Library Catalogue**. Use the following subject headings, under the **Browse** search, to find specific information for your research:

#### Computer Engineering and Electrical Engineering

- Power electronics
- Digital electronics
- Logic circuits
- Logic design
- " data processing
- Computer-aided design
- Digital integrated circuits, Design and construction
- VHDL (Computer hardware description language)
- Integrated software
- Integrated circuits
- Electronic circuits
- Electric circuits
- " Linear
- " Problems, exercises
- Electric circuit analysis, Data processing
- Electric Engineering
- Electric power systems
- Electric power production
- Electric power distribution
- Electric power transmission
- Electronic digital computers, Circuits
- Electronic apparatus and appliances
- Electromagnetism
- Microelectronics
- Microprocessors, Programming
- Microcomputers, Programming
- Engineering Mathematics, Data processing
- Computer organization
- Computer architecture
- Computer interfaces
- Computer literacy
- Computer network protocols
- Computer networks, Examinations, study guides
- " Management
- Embedded computer systems
- Computer science, Mathematics
- Data transmission systems
- Digital filters, Mathematics
- Discrete time systems
- Speech processing systems
- Signal Theory, Telecommunication
- Signal processing, Digital techniques
- Digital communications
- Telecommunication systems
- Optical communications
- Broadband communication systems
- Microwave communication systems
- Wireless communication systems
- Mobile communication systems
- Artificial satellites in telecommunication
- Fiber optics
- System analysis
- Vector analysis
- Calculus, Textbooks
- Linear models, Statistics
- Boundary value problems
- Fuzzy systems
- Neural networks, computer science
- Computer vision
- Robots, Industrial
- Power electronics
- Electronic data processing, Distributed processing
- Feedback control systems
- Image processing, digital techniques
- Microwave circuits
- " devices
- Antennas electronics
- Coding theory
- Information theory
- Academic writing

## Computer Science and Mathematics

- Object-oriented programming, Computer science
- C++, computer program language
- Java, “
- Pascal “
- PL/SQL “
- Visual programming
- Internet “
- Structured “
- Parallel programming, Computer science
- Oracle, Computer file
- UNIX, Computer file
- “ Computer operating system
- Data structures, Computer science
- Computer software, Development
- “ Reliability
- Software engineering
- Computer algorithms
- System analysis
- System design
- Systems engineering
- Human computer interaction
- User interfaces, Computer systems
- Graphic user interfaces, Computer systems
- Database management
- Database design
- Relational databases
- Object-oriented databases
- Data mining, Congresses
- Data protection
- Electronic data processing, Distributed processing
- Computer graphics
- Computer vision
- Image processing, Digital techniques
- OpenGL
- Formal languages
- Logic, symbolic and mathematical
- Machine theory
- Computational complexity
- Programming, Mathematics
- Computer science, Mathematics
- Calculus
- Linear models, Statistics
- Differential equations
- Computer algorithms
- Computer organisation
- Computer architecture
- Embedded computer systems
- “ design and construction
- Logic circuits, design and construction
- Operating systems, Computers
- Distributed systems
- Computer networks
- Data transmission systems
- Artificial intelligence
- Knowledge representation, Information theory
- Language and languages, Computer-assisted instruction
- Compilers, Computer programs
- Computer security
- Computer networks, Security measures
- Computer crimes

## Location on the shelves (Print Books)

Below you can find the location of various books relevant to **Computer Science/ Engineering & Electrical Engineering** in the library according to the Dewey Decimal Classification system in the Main, Reserve and Reference Collections:

Computer Science	Computer Engineering & Engineering	Electrical Engineering
<ul style="list-style-type: none"> <li>• 003 Systems</li> <li>• 003.54 Information theory</li> <li>• 004 Computer Science</li> <li>• 004.019 Psychological principles (Computer science)</li> <li>• 004.068 IT management</li> <li>• 004.21 Systems analysis &amp; design</li> <li>• 004.35 Multiprocessing</li> <li>• 004.678 Internet</li> <li>• 005.13 Programming languages</li> <li>• 005.268 Programming for specific operating systems</li> <li>• 005.44 Operating systems</li> <li>• 005.453 Compilers</li> <li>• 005.74 Data files &amp; databases (DataBase management / Information systems)</li> <li>• 005.756 Relational databases</li> <li>• 005.7570 Object-oriented databases</li> <li>• 005.8 Data security</li> <li>• 006 Special computer methods</li> <li>• 006.3 Artificial Intelligence</li> <li>• 006.31 Machine learning</li> <li>• 006.32 Neural networks</li> <li>• 006.33 Knowledge based systems</li> <li>• 006.6 Computer Graphics</li> <li>• 00.6.66 Programming</li> <li>• 006.68 Programs</li> <li>• 025.04 Information storage &amp; retrieval systems</li> </ul>	<p><b><u>Computer Engineering</u></b></p> <ul style="list-style-type: none"> <li>• 005.3 Computer programs</li> <li>• 604 Technical drawing (AutoCAD)</li> <li>• 620 Engineering</li> <li>• 620.1 Statics &amp; Dynamics</li> <li>• 620.11 Engineering materials</li> <li>• 620.112 Strength of materials</li> <li>• 621.39 Computer engineering</li> <li>• 621.392 Systems analysis, design &amp; computer architecture</li> <li>• 621.395 Circuitry, Digital Design</li> </ul> <p><b><u>Engineering</u></b></p> <ul style="list-style-type: none"> <li>• 333.7 Natural resources &amp; energy</li> <li>• 363.7 Environmental problems</li> <li>• 518 Numerical analysis</li> <li>• 519 Probabilities &amp; applied mathematics</li> <li>• 530 Physics</li> <li>• 530.141 Electromagnetic theory</li> <li>• 537 Electricity &amp; electronics</li> <li>• 620 Engineering and allied operations</li> <li>• 620.0042 Engineering design</li> <li>• 620.103 - 620.107 Engineering (Applied) mechanics</li> <li>• 621.4 Prime movers &amp; heat engineering</li> <li>• 624.1 Structural engineering &amp; underground construction</li> <li>• 628.5 Pollution control technology</li> <li>• 629.8 Automatic control systems</li> <li>• 629.89 Computer control</li> <li>• 629.892 Robotics</li> <li>• 629.895 Computerized process control</li> <li>• 696-97 Heating, ventilating, air-conditioning engineering</li> </ul>	<ul style="list-style-type: none"> <li>• 621.3 Electrical engineering; lighting; superconductivity; magnetic engineering; applied optics; parafotoc technology; electronics; communications engineering; computers.</li> <li>• 621.31 Generation, modification, storage, transmission of electric power</li> <li>• 621.31042 Electrical machinery &amp; equipment</li> <li>• 621.312 Generation, modification, storage</li> <li>• 621.317 Control devices, power electronics</li> <li>• 621.319 Transmission</li> <li>• 621.3192 Networks (Circuitry &amp; lines)</li> <li>• 621.36 Optical engineering</li> <li>• 621.366 Lasers</li> <li>• 621.367 Image processing</li> <li>• 621.381 Electronics</li> <li>• 621.3813 Microwave electronics</li> <li>• 621.3815 Components and circuits (analog, digital, integrated, microelectronic, semiconductors)</li> <li>• 621.3815324 Filter design</li> <li>• 621.381535 Operational Amplifiers</li> <li>• 621.382 Communications engineering</li> <li>• 621.3821 Communications networks</li> <li>• 621.3822 Signal processing</li> <li>• 621.3824 Antennas &amp; propagation</li> <li>• 621.3827 Optical &amp; Acoustical communications</li> <li>• 621.384 Radio &amp; radar</li> <li>• 621.3845 Mobile communication</li> <li>• 621.388 Television</li> <li>• 621.389 Security, digital audio and related systems</li> <li>• 621.4 Heat engineering &amp; prime movers</li> <li>• 621.471 Solar-energy engineering</li> <li>• 621.8 Machine engineering</li> </ul>

## Electronic Resources

The library subscribes to a number of databases which give access to millions of journal articles for your research. These can be accessed on-campus and off-campus (see “Off-campus access” instructions: [www.library.unic.ac.cy](http://www.library.unic.ac.cy) or contact our library staff). To access relevant databases for go to UNIC library webpage, either use the Library Search box or click on **Databases**, then sort by subject and select “**Science, Engineering & Technology**”:

### ProQuest Databases

- Research Library
- Computing
- Science
- SciTech Premium
- Telecommunications

### EBSCO Databases

- Computers & Applied Sciences Complete
- Education Research Complete
- Academic Search Ultimate
- MasterFile Premier

### Other Databases

- ACM Digital Library
- Energy Online (DeGruyter)
- Scopus

Also, search under “**e-journals**” & “**e-books**” links to find:

### E-Journals

- IEEE Xplore
- Cambridge University Press
- ScienceDirect (Elsevier)
- Emerald
- SAGE
- Springer
- Wiley
- Oxford University Press
- AIS Electronic Library
- Directory of Open Access Journals (DOAJ)

### E-Books

- EBSCO
- ProQuest eBook Central
- Springer
- Elsevier
- Wiley
- Cambridge University Press
- Oxford Online (OUP)

## European Resources

For resources relating to the EU go to: <https://op.europa.eu/en/home>

For related EU information:

- Informatics: [https://ec.europa.eu/info/departments/informatics\\_en](https://ec.europa.eu/info/departments/informatics_en)
- Communications Networks, Content and Technology: [http://ec.europa.eu/dgs/connect/mission/index\\_en.htm](http://ec.europa.eu/dgs/connect/mission/index_en.htm)
- General information: [http://ec.europa.eu/index\\_en.htm](http://ec.europa.eu/index_en.htm)
- Key Policy Focus on Communications Networks, Content and Technology: [https://ec.europa.eu/info/departments/communications-networks-content-and-technology\\_en](https://ec.europa.eu/info/departments/communications-networks-content-and-technology_en)
- ESA (European Space Agency): <https://www.esa.int/ESA>

For more relevant links go to the Library’s **EU resources** webpage: <https://edc.library.unic.ac.cy/eu-resources>

European Documentation Centre UNIC (EDC-UNIC): <https://edc.library.unic.ac.cy/>

## Copyright and Plagiarism

Access to subscribed resources is limited to authorised users only. An authorised user may use the Library’s electronic resources solely for scholarly, research, or educational purposes. For further information go to [www.library.unic.ac.cy/copyrights-and-plagiarism](http://www.library.unic.ac.cy/copyrights-and-plagiarism).

**AVOID PLAGIARISM!!!!** Plagiarism can be exhibited when you:

- Copy word for word, someone else’s work
- Use a phrase or sentence from someone else without giving the reference
- Download material from the internet and present it as your own work
- Pay someone else to do the work for you
- Copy and photocopy the work or project of another student

**Due to copyright regulations you must reference all material correctly!!**