

COMPUTER SUBJECT GUIDE - I/S

Books:

The social impact of computers / Richard S. Rosenberg
QA76.9.C66 R64 2004

ONLINE BOOKS :

Access the following three collections through <http://library.queensu.ca> >> Articles >> name of database:

Books24x7 - ITPro Collection: Online access to the full text of technical books.

Oxford Reference Online - Computing

Safari Tech Books Online

Access the following two collections through books/series through <http://library.queensu.ca> >> e-Books >> name of database

Dictionary of Computing (5th edition, 2004):

Dummies series on software

ONLINE LIBRARY:

Education and information Technology Library: <http://www.editlib.org/>

The EdITLib Digital Library is a valuable online resource of peer-reviewed and published international journal articles and proceedings papers on the latest research, developments, and applications related to all aspects of Educational Technology and E-Learning.

Textbooks: (There are currently no Computer textbooks on the Ontario Trillium List.

General

Discovering computers 2008: complete / Gary B. Shelly, Thomas J. Cashman, Misty E. Vermaat
On order

Computer concepts in action / Stephen E. Haag
QA76 .H22 2006t (teacher resource manual also available)

Peter Norton's introduction to computers/ Peter Norton
QA76.5 .N6818 2006

Computer confluence : tomorrow's technology and you : introductory / George Beekman, Michael J. Quinn
QA76.5 .B3655 2005

Computer service and repair : a guide to upgrading, configuring, troubleshooting, and networking personal computers / by Richard M. Roberts.
TK7887 .R62 2005 (instructor's manual also available)

3D game programming all in one / Kenneth C. Finney
QA76.76.C672 F56 2004

Robotics

The robot builder's bonanza / Gordon McComb, Myke Predko
TJ211 .M418 2006

Robots, androids, and animatrons: 12 incredible projects you can build / John Iovine
TJ211.5 .I58 2002

Multimedia:

Videos/ DVD

Bill Nye the science guy. Computers / Disney
in process

How computers were invented / writer and director, Bill Stonebarger
QA76.17 .H69 1997 VHS

Teacher Resources:

Changing how we teach and learn with handheld computers / Carolyn Staudt
LB1028.43 .S733 2005

Handheld computers and smartphones in secondary schools: a guide to hands on learning / Bard Williams
LB1028.43 .W53t 2006

Journals:

Print:

Journal of Computing in Teacher Education
Journal of research on technology in education
ALT-J : Association for Learning Technology journal.
Computers in education
The electronic school.
Information technology in childhood education annual.
Journal of computer assisted learning
Journal of computing in childhood education
Journal of educational computing research.
Journal of interactive learning research.
Micromath: a journal of the Association of Teachers of Mathematics.
Output / Educational Computing Organization of Ontario =
Research and practice in technology enhanced learning

Online:

Education & computing
Education and information technologies: official journal of the IFIP Technical Committee on Education.
Education technology news
Electronic journal of e-Learning
Digital creativity: incorporating Intelligent tutoring media.
Electronic learning
Information technology in childhood education annual
International journal of artificial intelligence in education
International journal of computers for mathematical learning
The Internet and higher education
Journal of educational technology & society
Journal of information technology education
Journal of interactive online learning

Journal of research on computing in education: International Association for Computing in Education.

Journal of research on technology in education

Learning and leading with technology: the ISTE journal of educational technology practice and policy.

Meridian:a middle school computer technologies journal.

SIGCUE outlook

Technology & learning

TechTrends: for leaders in education & training.

THE journal: technological horizons in education.

Websites:

Faculty of Education

Ontario Computer Science Teacher Resource Centre:

<http://compsciteacher.educ.queensu.ca/> (create your own login)

Computer Science Teacher wiki: <http://130.15.118.46/curr309/> (create your own login; create a new page--see Help)

University

MIT Open Courseware:

Provides open access to MIT courses, many computer related

<http://ocw.mit.edu/OcwWeb/web/home/home/index.htm>

General

History of Computers: <http://inventors.about.com/library/blcoindex.htm>

Holt Software: <http://www.holtsoft.com/turing/>

Turing and Java

How Stuff Works: <http://www.howstuffworks.com/>

Great site with images and written explanation of computer components.

Lawrenceville Press: <http://www.lvp.com/datafile.htm>

VB, VC and Office

Logic Gates: http://en.wikipedia.org/wiki/Logic_gate
Great diagrams and explanation of logic gates

Logic Indicators: http://www.play-hookey.com/digital/experiments/logic_indicators.html
Schematic Diagrams and electronic experiments

Operating Systems

Linux: <http://www.linux.org/>
A free operating system that provides an alternative to MS Windows

Red Hat: <http://www.redhat.com/>
Free Operating system for download

Ubuntu: <http://www.ubuntu.com/>
Free Operating system for download

Mac OS – Main operating system: <http://www.apple.com/ca/macosx/leopard/>
The biggest Mac OS X upgrade ever, Leopard features 300 + innovations.

Systems Architecture: <http://developer.apple.com/macosx/architecture/index.html>

Windows: <http://www.microsoft.com/windows/default.mspx>

Programming Resources

Visual Studio Reference: <http://msdn2.microsoft.com/en-us/library/ms950416.aspx>
Reference, documentation, sample code and tutorials are available for free download

Visual Studio: <http://msdn2.microsoft.com/en-us/vstudio/default.aspx>
Free download of Express Editions: Visual Basic, Visual C#, etc.

Project Management Software

Free Project Management Software for use in the design and management of software and other projects:

http://www.openworkbench.org/index.php?option=com_frontpage&Itemid=1

Stepper Motors

Floppy Disk Drive Robot: <http://www.generation5.org/content/2001/floppy.asp>
Instructions for creating your own Floppy Disk Robot

Floppy Disk Robot: <http://www.tvdsb.on.ca/banting/ICE3M/unit6/floppy/>
Similar to above, but step by step for students

How Stepper Motors Work: <http://eio.com/jasstep.htm#operation>

Professional Associations:

Association for the Advancement of Computing in Education: <http://www.aace.org/>
An international, educational and professional not-for profit organization dedicated to the advancement of the knowledge, theory, and quality of learning and teaching at all levels with information technology (membership is \$55).

Computer Science Teachers Association: <http://www.csta.acm.org/>
Supports and promotes the teaching of computer science (free membership).

Educational Computing Organization of Ontario: <http://www.ecoo.org/>

International Society for Technology in Education: <http://www.iste.org/> . The all-inclusive membership will allow us access to all their journals and Special Interest Group materials:

1-to-1 Computing: www.iste.org/sig1to1
SIG1to1 works to advance the thoughtful proliferation of 1-to-1 mobile computing devices for every student in K-16 education.

Computing Teachers: www.iste.org/sigct
SIGCT seeks to advance the practice of teaching computing and computer science in PK12 education both broad knowledge and skills needed by all students.

Administrators: www.iste.org/sigadmin
SIGAdmin explores factors that influence a positive return on technology investment and shares best practices for planning, managing, and assessing resources.

Handheld Computing: www.iste.org/sighc

SIGHC supports educational uses of handheld, wireless, and mobile computing devices. Collaborate with teachers, tech coordinators, teacher educators, and industry leaders.

Digital Equity: www.iste.org/sigde

SIGDE seeks to improve access to technology tools and provide opportunities for all learners. Share digital equity strategies with educators, and researchers worldwide.

Innovative Learning Technologies: www.iste.org/sigilt

SIGILT helps pioneering educators explore new learning technologies and innovative practices. Learn to implement and sustain innovation in classrooms and schools.

Interactive Video Conferencing: www.iste.org/sigivc

SIGIVC supports educators in the use of interactive videoconferencing and related virtual learning technologies. Share best practices on planning and implementing.

Media Specialists: www.iste.org/sigms

SIGMS recognizes that librarians serve as school and district technology leaders and offers professional development and policy activities in a variety of venues.

Special Education Technology: www.iste.org/setsig

SETSIG sponsors workshops, trainings, and other activities for educators interested in assistive and instructional applications of technology for disabled and gifted students.

Technology Coordinators: www.iste.org/sigtc

SIGTC addresses current legislation and advancements. Venues for identifying problems and solutions include an active online forum and face-to-face meetings.

Teacher Educators: www.iste.org/sigte

SIGTE serves professionals focused on teacher education with a peer-reviewed journal and other venues that address pre- and in-service training, certification issues, research in computer education, and appropriate training materials.

Telelearning: www.iste.org/sigtel

SIGTel supports educators involved with computer-based communications and distance learning models through an online bulletin and other venues.

