



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

LIBRARY
Enriching world-class scholarship

Computer Science Collection Development Policy

Last Updated 15 August 2008

1. Purpose of the collection

The Library purchases computer science material to support research and teaching activities in the School of Information Technology & Electrical Engineering. Some of these materials are also pertinent to research and teaching in the School of Physical Sciences. The material is also used by the ARC Centre for Complex Systems and the ARC Research Network in Enterprise Information Infrastructure.

2. Primary user groups served

The School of Information Technology & Electrical Engineering offers a wide range of undergraduate and postgraduate subjects for inclusion in the following courses:

- Bachelor of Engineering
- Bachelor of Information Technology
- Bachelor of Multimedia Design
- Bachelor / Masters of Engineering in Biomedical Engineering
- Bachelor of Arts
- Bachelor of Science
- Master of Engineering suite
- Master of Science suite
- Master of Information Technology suite
- Master of Interaction Design suite

The School also offers facilities for research leading to the awards of:

- Master of Philosophy
- Doctor of Philosophy
- Doctor of Engineering
- Doctor of Science

The major research interests of the School and Research Centres include:

- algorithms and data structures

- cognitive science
- data modelling
- distributed systems
- high performance computing
- human computer interface
- information systems
- intelligent systems
- knowledge representation
- legal informatics
- logic programming
- metaprogramming
- object oriented programming
- parallel computation
- programming languages
- real time systems
- safety critical software
- software engineering
- software maintenance
- software verification
- theoretical computer science
- wireless

3. Description of the collection

The majority of the collection is housed in the Dorothy Hill Physical Sciences and Engineering Library, although less-used material may have been withdrawn to the campus warehouse. Many additional resources particularly in the area of cognitive science are available in the Social Sciences and Humanities Library.

The library receives all IEEE journals and major IEEE conferences. Publications of the Association for Computing Machinery are received as part of the Library's membership of the Association and are available online as part of the *ACM Digital Library*. The full text of Elsevier Science journals is available through *Science Direct*.

A current awareness service is available via the *Web of Science* database.

The *INSPEC* database incorporates *Physics abstracts*, *Computer and control abstracts* and *Electrical and electronics abstracts*. The Library maintains access to *INSPEC* via the Library database network from 1969 onwards. *IEEE Xplore* provides full text access to technical literature in electrical engineering, computer science, and electronics, including IEEE Software Engineering Standards, since 1988. Other databases which are available and are relevant to computer science include *MathSciNet*, *Collected algorithms from ACM*, *Expanded Academic* and *Compendex*. *Lecture notes in Computer Science* is available in print from 1973 and electronically from 2005.

4. Interdisciplinary relationships

Overlap occurs with several other areas such as mathematics with respect to algorithms and psychology with respect to cognitive science and human computer interfaces.

Material on applications of computing to other subjects can be found with the relative subject literature throughout the library system.

5. Scope of current collecting

1. Languages collected

Current material collected in computer science is in English, whatever its country of origin.

2. Geographical areas collected

Not relevant to computer science.

3. Chronological areas collected or excluded

Not relevant to computer science.

4. Types (formats) of material collected

The collection is mainly in printed format. CD-ROMS accompany an increasing number of texts. A small collection of videocassettes is held for undergraduate teaching. Software itself is not collected. To ensure timely access to core journals by teaching and research staff, journal titles which become available in electronic format are purchased unless costs are prohibitive.

5. Publication dates

Collecting focuses on current and recently available imprints.

6. Special considerations

None

7. Conspectus

The collection is rated 3B in those subject areas which correspond to the research interests of the school and we would continue to collect at this level.