Computer Science

Responsibility for Policy: Helen Lynch
Approving Authority: University Librarian
Approved: September 2014
Next Review Date: September 2016

The Subject Collection Management Policy is bound by the general principles detailed in the Library’s Collection Management Policy. It is not a stand-alone document and should be read in conjunction with the Library’s Collection Management Policy and any other subject specific collection documents.

1. General Information

1.1 Collection Purpose
The Library’s Computer Science collection supports the teaching, research and learning needs of staff and students in the Department of Computer Science, Faculty of Computing and Mathematical Sciences.

Programmes offered in computer science range from bridging, through undergraduate, graduate and postgraduate certificates and diplomas to masters and PhD level. The study of computer science is divided into two main areas; computer science and computer graphic design.

1.2 Primary User Groups
The main users of the collection are students and staff of the Computer Science department.

1.3 The Department of Computer Sciences’ research interests include:
- complex event processing
- computer graphic/interaction design
- context-aware systems
- cyber security
- digital forensics
- digital libraries
- formal methods
- human computer interaction
- information assurance
- information systems and databases
- location-based systems
- machine learning
- mobile applications
- mobile systems
- networks
- privacy
- programming languages
- web applications

1.4 Interdisciplinary Relationships
The computer science collection is also used by students studying other scientific disciplines especially mathematics, physics and engineering and those enrolled in the BSc (Tech) and BE. A close collaboration exists between the Faculty of Computing and Mathematical Sciences and the Faculty of Science & Engineering.

The Management Systems discipline, from the Waikato Management School, also uses the collection.

2. Description of Existing Collection

Relevant material is held in the following LC classification areas in the Central Library’s general collection:

- QA  Mathematics, Computer Science and Software
- TK  Electronic Engineering, Computer Networks, Computer Science from an engineering perspective

Due to the diverse nature of Computer Graphic Design there is overlap with other subject areas such as Art, Media and Design, so that some relevant books will also be held in other areas within the library.

Increasingly e-books are being purchased.

The Library has online access to an extensive list of scholarly journals through subscription to major publisher’s or supplier’s output, e.g. Wiley, Springer (including Lecture Notes in Computer Science), Ingenta, Oxford University Press, Morgan & Claypool (Synthesis Computer & Information Science Collections One, Three and Four) and ACM Digital Library. Additional material is held in the print journals collection.

Free to access Web based resources, such as the e-print archives arXiv and CoRR (Computing Research Repository), and the digital libraries CiteSeer and IEEE CSLSP-e are noted here as highly important sources of information in computer science.

3. Scope of Collecting

Upper level under graduate and graduate texts, research monographs, professional society publications, and journals are collected. Reference works, conference proceedings and software and programming guides are purchased selectively. Popular computer science works including guides to the use of specific software are not generally collected. Preprints and laboratory manuals are not collected.

Computer Graphic Design covers digital images and type, and does not include fine arts e.g. painting and sculpture.

3.1 Chronological Periods
Computer Science is a relatively modern discipline and emphasis is on the study of recent developments. A historical perspective is relevant for Computer Graphic Design.
3.2 Types of Material
Print and/or electronic formats are collected but other types of material may be considered.

3.3 Geographical Areas
The geographic area is not relevant to the study of computer science.

3.4 Languages
English is the primary language of the collection, including current purchases.

3.5 Publication Dates
Computer science collecting focuses upon recent and current imprints to support the teaching and research areas of the department. Retrospective collecting may be undertaken to support new teaching and research programmes.

Older Computer Graphics Design publications may be purchased if they give a useful historical perspective.

3.6 University of Waikato at Tauranga Collection

Papers offered at Tauranga are identical to papers offered at Waikato, although not all papers are offered. They may be counted towards a BSc (with a specialisation in Applied Computing) or a BCGD.

Responsibility for this collection lies with the academic staff and the Subject Librarians.