The discovery and management of medical and health data offers not only opportunities to better treat and manage health-related issues, including containing costs and providing insight into the behaviour of health systems, it also provides a difficult, and therefore interesting and rewarding, domain for information technology research and implementation.

This workshop will showcase some of the leading research in this area bringing together researchers not only from the Australasian region but internationally. HKMD will be held as part of the Australasian Computer Science Week (ACSW 2007), which also includes the following conferences, symposia and workshops:

- The Australasian Computer Science Conference (ACSC)
- The Australasian Computing Education Conference (ACE)
- The Asia-Pacific Conference on Conceptual Modelling (APCCM)
- The Australasian Database Conference (ADC)
- Computing: The Australasian Theory Symposium (CATS)
- The Asia-Pacific Conference on Conceptual Modelling (APCCM)
- The Australasian User Interface Conference (AUIC)
- Australasian Symposium on Grid Computing and Research (AUSGRID)
- The Australasian Information Security Workshop: Privacy Enhancing Systems (AISW)

The Australasian Computer Science Week 2007 will be hosted by the School of ITMS at the University of Ballarat. The conference venue will be the Caro Convention Centre in Ballarat, Victoria, Australia. Registration to APCCM will enable delegates to attend sessions in any conference participating in the Australasian Computer Science Week.

Scope of the Workshop

Managing health data brings accentuates problems that can sometime be avoided in some other domains. For example, the amount, complexity and diversity of information can be large and the security and ethical considerations are also non-trivial. Add to this the large and diverse user community and the considerable body or existing knowledge and the task of managing and/or discovering new knowledge is one of the most difficult domains currently existing for IT researchers.

HKMD invites contributions addressing current research in medical and health knowledge management and discovery as well as experiences, novel applications and future challenges. Topics of interest include, but are not restricted to:

- conceptual models and data standards for health IT systems
- ethical issues and privacy protection
- health data quality – improving the use and quality of data collections
- health information modelling
- health information retrieval, analysis, visualization and prediction
- health knowledge discovery
- health knowledge representation and retrieval
- health schema and data integration
- lessons learnt from implementations of health information systems
- managing health-related data
- modelling spatial, temporal and biological data for health purposes
- security for health systems
systems dealing with

- health system responsiveness – improving interaction and communication between health professionals
- tracking and support within the community
- patient education

Submission of papers for review

HKMD invites papers describing original contributions in all fields of medical and health knowledge management and discovery and related areas. Papers should be no more than 10 pages in length conforming to the formatting instructions for the series Conferences in Research and Practice in Information Technology. Complete instructions for authors regarding formatting procedures can be found at the CRPIT website http://crpit.com/. (Instructions are available in section Procedures and Resources for Authors.)

Each paper will be judged on its originality, significance, technical quality, relevance to the workshop and presentation. Submission of a paper should be regarded as an undertaking that, should the paper be accepted, at least one author will attend the conference to present the work.

Submissions should be emailed in pdf format only to hkmd2007@infoeng.flinders.edu.au by the due date below.

Publication

The proceedings of the conference will be published by the Australian Computer Society as part Conferences in Research and Practice in Information Technology series (CRPIT) which is also held in full-text on the ACM Digital Library. Each paper will be fully refereed.

In addition, the authors of the best papers from the workshop will be invited to extend their papers for possible inclusion in the electronic Journal of Health Informatics.

Important Dates

Submission of full papers: October 10, 2006 (midnight PST) (extended)
Notification of authors: October 31, 2006
Final version and author registration: November 8, 2006
HKMD Workshop: January 30 to February 2, 2007

Program committee

PC Chairs: John Roddick, Flinders University, Australia
Jim Warren, The University of Auckland, New Zealand

PC Members: tba