



CALL FOR PAPERS
The Australasian Workshop on Health Informatics and
Knowledge Management HIKM 2011
(part of Australasian Computer Science Week ACSW 2011)

Curtin University of Technology Bentley, Western Australia
17 – 20 January 2011

Information and communications technology has enormous potential for transforming our healthcare delivery systems. Managing health and medical data in electronic format and extracting better understanding from it brings significant technical challenges that have to be resolved. These include how to store and manage large amounts of complex and disparate data; how to facilitate efficient information retrieval by diverse stakeholders with different objectives; balancing data privacy concerns against clinical and research benefits of data availability; and how to extract knowledge from data to contribute to healthcare decision making. The incorporation of specialised data types and multiple data sources to support broader operational and evidence related aspects of healthcare is also important. This includes diverse areas such as biomedical imaging, data coding, diagnosis and treatment guidelines, genome/phenome data, interactive multimedia, and physiological signals.

Contributions are sought addressing current research topics in health informatics and knowledge management, including but not limited to:

- conceptual models and architectures for health information systems
- privacy, protection and security issues for health data and systems
- improving the use and quality of health data collections and registries
- health workflow management and business process engineering
- clinical decision support systems and diagnosis/treatment guidelines
- patient journey analysis and modelling, and care plan management
- health information retrieval, analysis and visualization
- health knowledge discovery, representation and application
- health databases and repositories, and data integration/linking
- modelling spatial, temporal and biological data for health purposes
- systems for integrated or coordinated care and sharing of patient data
- public and population health data analysis, prediction and surveillance
- electronic health records (EHRs) and personal health records (PHRs)
- health data coding, terminologies, ontologies, messaging protocols
- health consumer information systems and web portals/tools
- data and knowledge aspects of bioinformatics and physiological signals
- biomedical devices and imaging data processing and analysis/interpretation
- evaluation and standardisation in health data and clinical applications.

Publication of papers:

The proceedings of the conference will be published by the Australian Computer Society as part of 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 refereed in full by at least 2 independent expert reviewers.

Submission of papers for peer review:

The workshop invites papers describing original contributions in all fields of health informatics and knowledge management 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> in the section on 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 will 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 K.Butler-Henderson@exchange.curtin.edu.au by the submission due date below.

Important Dates:

Submission of full papers:	Monday 13 September 2010
Notification of authors:	Monday 11 October 2010
Camera Ready version:	Friday 5 November 2010
Earlybird registration:	Monday 6 December 2010
ACSW 2011 conferences:	Monday 17 – Thursday 20 January 2011

Workshop CoChairs:

Kerryn Butler-Henderson	Curtin University of Technology
Tony Sahama	Queensland University of Technology

More Information:

<http://publichealth.curtin.edu.au/HIKM2011/>