



Himeji, Japan
23-25 April 2009

First KES International Symposium on Intelligent Decision Technologies

Call for papers: Session on “Decision and Health”

At the First KES International Symposium on Intelligent Decision Technologies

<http://www.lirmm.fr/TATOO/IDT09>

Summary

In many health organisations, decision technologies are getting recognized as a key component of the process of medical data management. Most of the medical information now exists in a digital form because of the intensive use of information and communication technologies in healthcare and in medical research and management. Consequently, the processing of this medical data becomes a major topic for health care professionals to understand large volumes of data.

Decision technologies have been recently experiencing a boom of interest from researchers and software producers in areas related to health. The results of such processes are decisive for real-world applications:

- In *healthcare*, decision technologies are used to understand the data and/or to find causes of problems in order to provide to the doctors actionable knowledge in order to treat the patients (e.g. diagnostic systems).
- In *medical research*, decision applications are still rather rare due to the difficulties to reproduce the experimentations. However, discovering knowledge about medical data is critical for medical decision (e.g. side-effects of therapies, new syndrome).
- In *medical management*, decision technologies can be used to discover knowledge about the nature of healthcare practice in an institution/hospital, at a local/national level (e.g. fraudulent practices detection).

Decision technologies applications to the medical data thus bring unique opportunities but also new challenges. Indeed, medical data are inherently heterogeneous, incompletes, with errors, etc. The use of decision technologies to process this medical data and to discover new knowledge is an important and ambitious objective to take advantages of the huge volume of medical data.

This session on Decision and Health will be held in IDT, Himeji, Japan, 23-25 April 2009. The contributors will be selected in order to yield a multidisciplinary approach. Together their contributions provide a global vision of the challenges to be addressed in the next few years as to ensure the processing of medical data.

Topics include, but not limited to:

- Intelligent medical decision making support systems,
- Managing, querying and mining medical data,
- Information retrieval, data stream techniques, multi-agent systems, machine learning, fuzzy mining applied on medical data,
- Medical knowledge management systems.

Organizers

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Important dates

Submission of Papers: 15 December 2008
Notification of Acceptance: 30 December 2008
Upload of Final Papers: 10 January 2009
Early registration deadline: 12 January 2009
Conference: 23rd - 25th April 2009

Paper submission

Paper submission must follow the conferences guidelines. <http://idt-09.kesinternational.org/submission.php>