

Decision Support in Brain Diseases

Call for Papers

The IEEE 2007 International Conference of the Engineering in Medicine and Biology Society solicits papers on decision support systems (DSS) to in studying brain diseases such as Epilepsy, Alzheimer, Schizophrenia, etc. Many computerized decision support systems fail to reach the clinical environment for a number of reasons. For example, they might be highly theoretical with little relevance to the real world. Others might be technology driven. The question of evaluation often arises when looking into new technology. Randomized-controlled trials (RCT) help to a great extent in the evaluation process. However, RCT's are not always feasible or cost-effective.

The focus of this special call for papers at EMBC 2007 is to discuss the various steps it takes to develop DSS in brain diseases and the implications on the users and healthcare providers.

Specific topics of interest include, but are not limited to, the following:

- Image and data analysis to aid diagnosis of brain diseases
- Design and development of computerized DSS
- Evaluation methods prior to clinical use
- Clinical trials and randomized-controlled trials
- Deployment methods of DSS including the use of the Internet
- Ethical issues related to the use of DSS in clinical practice
- Cost-effectiveness and cost-benefit analysis of DSS

Paper submission:

This topic is within the conference web site for Theme 10, Healthcare Information Systems; Telemedicine. **IMPORTANT special paper submission instructions:** When you submit your paper using the conference web site, carefully indicate the **primary keyword** as “**Decision Support Systems.**” Failure to do so will likely prevent timely review, and could cause a de facto rejection.

Important Dates:

Four Page Paper Submission April 2, 2007
Notification of Acceptance June 15, 2007

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