

RFID Technologies in Medicine

A special topic within Track 11.2 Healthcare Decision Support Systems

Call for Papers

The IEEE 2006 International Conference of the Engineering in Medicine and Biology Society solicits papers on RFID and sensor technology developments to improve the administration of healthcare and patient safety. As indicated by the IOM report in 2000, over 700,000 injuries are caused by medication errors every year resulting in more than 40,000 preventable deaths per year. As a wireless, non-line of sight automated identification and data capture technology, an important vision for the use of RFID technologies is the support they will provide in reducing medical errors and improving patient safety. RFID technologies are expected to be one of major technologies applied in improving patient safety by automatically and immediately detecting and preventing errors.

The focus of this special call for papers at EMBC 2006 is on the use of RFID technologies to improve patient safety. General topics of interest include device designs, performance under real-world use, and applications of RFID and sensor technologies to all aspects of medicine and related product development.

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

- RFID devices and systems
- Data modeling and integration
- Computational intelligence applications
- Performance evaluation, including medical error and patient safety implications
- Decision support integration and applications: opportunities and issues
- Data integrity, reliability, and privacy issues
- Test beds and proof of concept facilities
- Mass serialization to create unique identification information
- RF conflict planning and management in the healthcare enterprise
- Drug safety under RFID exposure

IMPORTANT special paper submission instructions: Submit your paper using the conference web site indicating the **primary keyword** as “**Healthcare Decision Support Systems.**” This is necessary to ensure the paper is reviewed properly.

Important Dates:

Four Page Paper Submission April 3, 2006: Notification of Acceptance June 15, 2006

Theme 11	Clinical Engineering and Healthcare Information Systems
Track 11.2	Healthcare Decision Support Systems
Sub track	RFID Technologies in Medicine

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