



## Call for Papers Special Issue on Healthcare

### Information Quality:

#### The Challenges and Opportunities in Healthcare Systems and Services

The challenges facing the information quality community within a medical context are immense as the tools which collect, process, and use the healthcare-related data are in a constant state of flux. If one considers the drivers and challenges surrounding the technological (e.g. continuous advancements in the digital utilisation), the commercial (a hodgepodge of individual providers) and finally information and communication standards (with a lack of or maturity of) then the realisation of an effective quality based information system for healthcare seems very far away indeed. For example, it was reported that between 44,000 and 98,000 deaths occur annually as a consequence of medical errors within American hospitals alone (Kohn et al. 1999).

“A window of opportunity remains for health care to follow other high risk industries in establishing basic safety” (Stelfox et al. 2006) to help improve overall patient care. However if one takes into account the unique operational practices within each healthcare institute and the archetypal resistance to change in adopting new and emerging medical devices and associated practices (Roback et al. 2007) then the challenge for all parties concerned is enormous. Many will agree with Grossman’s recent statements: “The struggle to improve the quality of care is, at best, at a standstill” (Grossman, 2008)

Over the years, advancements have been made on a number of fronts, for example through wireless sensor networks (Baker et al. 2007), tele-home care (Johnston, B, et al. 2000) and clinical decision support systems (Johnston, M.E., et al. 1994) among others. The objective of this JDIQ special issue: *Information Quality the Challenges and Opportunities in Healthcare Systems and Services*, is to solicit high quality papers which contribute to the continued advancement of healthcare delivery. This special issue will provide a global forum for presenting authoritative references, academic/industry rigorous research and case studies in both theoretical development and applied research.

Topics of interest include, but are not limited to:

<b>Impact and Role of</b>	<b>Database and IT Architectures</b>	<b>Technology Integration and Data Management</b>
<ul style="list-style-type: none"> <li>▪ Electronic Health Records (EHR)</li> <li>▪ Health Information Exchanges (HIE)</li> <li>▪ Information quality on medical work process and strategy</li> <li>▪ Information quality within medical organizations</li> <li>▪ Overall operational or economic performance, cost and benefits</li> <li>▪ Knowledge management, patient and medical personnel management</li> </ul>	<ul style="list-style-type: none"> <li>▪ Medical based technical solutions of information systems</li> <li>▪ Communication standards</li> <li>▪ Data privacy, confidentiality, and security mechanisms</li> <li>▪ Database architectures, techniques and processes</li> <li>▪ Medical based data warehouse</li> <li>▪ Data mining</li> </ul>	<ul style="list-style-type: none"> <li>▪ Simulation of technology or process adoption</li> <li>▪ Patient data management, patient monitoring resolution, and records linking</li> <li>▪ Enterprise architecture deployment</li> <li>▪ Body Area or Body Sensor Networks (BAN/BSN)</li> <li>▪ Remote Patient Monitoring</li> <li>▪ Technology integration and data management processes</li> <li>▪ Medical based Decision Support Systems (DSS), and Dashboards</li> </ul>

## Important Dates:

Abstract submission	November 20 <sup>th</sup> 2009
Paper submission	January 9 <sup>th</sup> 2010

## Submissions:

Abstract submissions can be made by emailing:

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Paper submissions are managed through the ScholarOne manuscripts system at:

<http://mc.manuscriptcentral.com/jdiq>

## Prospective Authors and Reviewers:

Contact the Special Issue Guest Editors for further information.

## References:

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