Call for Paper: IEEE 2010 International Workshop on Healthcare Informatics Services (HIS 2010)
in conjunction with ICWS/SCC/CLOUD 2010

President Barack Obama points out, "*(Healthcare) is about people's lives. This is about people's businesses. This is about our future.*" Computer technologies are bringing about enormous changes in the biomedical domain, revolutionizing the way healthcare is delivered and managed. The changes wrought by ubiquitous deployment of microchips, computers and sensors promise to be profound enough to change our lives and our society. Embedded software is getting more pervasive and its use in medical devices is gaining momentum. The devices and services are taking on increasingly vital roles in reducing the errors and cost. Scientific and clinical services and workflows, bio-sensors, along with interoperability of systems have brought seamless care into the realm of possible. It is becoming increasingly clear that the promised changes in healthcare will only be possible with judicious exploitation of the Healthcare IT and advances in biomedicine.

The goal of this workshop is to bring together researchers and practitioners from the fields of healthcare, biomedical sciences, computer science, management and services to share their experiences and research results, and identify the emerging trends, opportunities, problems, and challenges in this area. It is anticipated that the workshop will foster collaborative efforts among practitioners and researchers, accelerate knowledge discovery, and thus contribute towards advances in research and practice of healthcare.

Prospective Audience and Authors: The workshop will be integrative from two perspectives: The research perspective will give researchers the opportunity to present and discuss current and future breakthroughs in information technologies and services in healthcare as well as the novel ways in which they are applied. The practical perspective will provide the opportunity for researchers and practitioners to present case studies and practical experiences in deployment, use, and management of software, systems, and tools in healthcare and biomedicine related applications, activities and facilities.

Authors are invited to submit regular papers (8 pages), short papers (4 pages), and demo papers (2 pages) that show original unpublished research results in all areas of healthcare informatics services.

List of Potential Topics: Research results, case studies, and demos of systems on scientific computing and management in health and biomedical applications are encouraged. Suitable topics include, but are not limited to, the following:

1. Bioinformatics, medical informatics, or chemometrics
2. Developing, testing, and using embedded applications in healthcare service provision
3. Technical infrastructure for health: data coordination and computational thinking
4. Informatics systems for electronic records integrating image data with clinical data for health care decision support

5. Interfaces for transmitting image data across institutions/hospitals
6. Interoperable Electronic Health Record (EHR)-based research platforms
7. Data mining and management for medical records database, including mining clinical notes, test data and images
8. Artificial intelligence technologies to support complex decision making in health care or clinical research
9. Application of workflow services to clinical care and other healthcare processes
10. Protection of individual privacy for aggregate anonymous data, security and privacy policies for health care
11. Technologies to address rural health disparities, geographic disparities in Medicare usage and cost
12. Tools to assess the impact of interventions on quality of life and cost effectiveness for health care

***Workshop format*:** The format of the workshop will include presentations, demonstrations (hardware and software), and posters.

Size and length of the proposed workshop: The workshop is expected to be held for one day. The duration of individual sessions will range from 90 minutes to 120 minutes, including a 15minutes break.

Instructions for Final Submission: Final papers will be acceptable in MS-Word format. The maximum number of pages is 8 for a regular paper, 4 for a short paper, and 2 for a demo paper. Submission requires you to be registered and logged in on Conferences Hub(http://www.confhub.com/). Registration is free. To submit a paper visit: http://www.confhub.com/SubmitAbstract.php?cid=174

The accepted papers will be published by **IEEE** Press as part of conference proceeding.

Important dates:
Submission Deadline: **March, 20, 2010** *(revised from Feb. 28, 2010)*
Acceptance Notification: April 2, 2010
Final Paper Due: April 30, 2010
Conference Date: July 5-10, 2010

Venue of the Workshop
The IEEE Workshop HIS 2010 (in conjunction with ICWS/SCC/CLOUD) will be held in Miami, Florida, USA.

Program Chairs:

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Jian Song, Los Alamos National Lab
Alexandre Sztajnberg, Rio de Janeiro State University, Brazil
Abbasi Ujjainwala, Capgemini US LLC

Publicity: Dr. Huyu Qu from Honeywell has been designated for the publicity of the workshop

HIS 2010 Web site:
http://www.cs.siu.edu/~qcheng/HIS2010
http://www.proteme.org/HIS2010-cfp.html

Publication: Dr. Patrick Rivers from Southern Illinois University, Carbondale, IL will oversee publication of the conference proceedings