
Special Interest Group in Healthcare Association for Information Systems



SIGHealth Newsletter

Volume 7 ■ Issue 1 ■ January 2014

Editor's Notes...

Greetings and Happy New Year!

This is our first issue in 2014. Our first article in the January SIGHealth newsletter recaps recent SIGHealth activities and future plans from the perspective of our president, Vance Wilson. Vance also notes our growth to over the 200-member level. Our second article summarizes the success of our Australian healthcare track at ACIS 2013. The third article details our CFP on the up-coming AMCIS2014 joint research workshop for human-computer interaction in health and wellness, co-sponsored by SIGHealth and SIGHCI. Lastly, our fourth article highlights the SIGHealth mini-tracks slated for AMCIS 2014 in Savannah, Georgia, USA.

Please consider sharing your or your colleague's professional accomplishments with the SIGHealth membership. We want to recognize our members for their professional and community success, so please email your accomplishments and community news to sighealthnewsletter@gmail.com.

In closing, I would like to continue the call to the SIGHealth membership for help in identifying SIGHealth resources. I hope you will share your practitioner and research experiences with other SIGHealth members through contributions to your newsletter. We have a Gmail account (sighealthnewsletter@gmail.com) to expedite your submissions. Content received during each quarter will appear in the up-coming issue and timely material can be added to the SIGHealth Website or bundled into a special newsletter issue. Suggested content categories are:

- News about SIGHealth members (up to 300 words)
- We welcome SIGHealth related essays (about 900 words) from industry professionals.
- News and approaches to teaching e-health (up to 1800 words)
- "How to's" on research methods, getting papers published, reviewing papers, etc.
- Any other announcements (up to 300 words for each item).

In the meantime, please remember to re-designate your membership in SIGHealth when you renew your AIS membership.

This newsletter issue also highlights upcoming networking and publishing opportunities for regional and international workshops and conferences, with more details posted via <http://www.aissighealth.com>.

Warmest regards,

Jim Ryan, Ph.D.

jeryan@troy.edu

sighealthnewsletter@gmail.com





Feature Articles...**President's Report...****Vance Wilson**

Happy New Year!

2013 ended quietly for SIG-Health, which I suppose is to be expected following the flurry of activities that build up to our annual August business meeting and AMCIS conference events. Now that 2014 has arrived, we are initiating another annual cycle with some major SIG initiatives. Here is the month-by-month report on SIG-Health activities during the past three months and a discussion of upcoming events in 2014.

November 2013 – Working in concert with Soussan Djamasbi, Immediate Past Chair of SIGHCI, I completed recruitment of a program committee for the pre-AMCIS 2014 “HCI in Health and Wellness” research workshop and an associated special issue of AIS Transactions on Human-Computer Interaction (THCI) that are being co-sponsored by SIG-Health and SIGHCI. Program committee membership is split approximately 50-50 between the two SIGs. November began with 157 SIG-Health members.

December 2013 – Eight SIG-Health mini-tracks were accepted for AMCIS 2014 conference. SIG-Health did not host a formal meeting at ICIS 2013, but board members planned to meet informally at HICSS 2014. SIG-Health membership in December climbed to 192.

January 2014 – The European Conference on Information Systems (ECIS) health tracks received 38 submissions, and SIG-Health membership in January climbed further to 216.

2014 will bring significant changes to SIG-Health. First, we will be breaking new ground by co-hosting with SIGHCI a boundary-spanning research workshop prior to AMCIS 2014. Second, there will be changes in SIG-Health leadership during 2014. President-Elect Gondy Leroy will step into the President position and Treasurer Ann Fruhling will end her elected term. New elections will occur during the summer months to replace the two resulting vacant positions.

I have included membership figures in this report to give an idea of where SIG-Health is headed. Of course, during this period each calendar year we tend to cycle from our lowest to highest member levels, as people go through the process of renewing their AIS memberships. However, it is impressive that for the first time we are now well above the 200-member level. This bodes well for 2014 and beyond.

Vance Wilson,

SIG-Health President (2012-2014) ■

Successful Australian Health Track (ACIS 2013)...**Nilmini Wickramasinghe**

The 24th Australasian Conference on Information Systems (ACIS) was held in Melbourne December 4-6 2013. Professor Nilmini Wickramasinghe proposed IS and healthcare as a track for ACIS 2013 and as a result, the track was one of the most successful at the conference attracting over 40 submissions with 15 accepted papers and 2 panel sessions.

This was the first year in the history of AICS that there has been a healthcare track and it was most welcomed, especially by the entire healthcare IS researchers in the Australasian region. The feedback from track was complimentary on the quality of the papers, where the discussion was very good and most informative. ACIS 2013 attendees all had a great time networking with new and familiar faces. ■

**CFP on HCI in Health and Wellness (Pre-AMCIS 2014 Research Workshop)...**

Vance Wilson

Call for Papers on Human-Computer Interaction in Health and Wellness

- 2014 Research Workshop Jointly Hosted by Association for Information Systems (AIS) SIGHealth and SIGHCI
- Special Issue of AIS Transactions in Human-Computer Interaction

IMPORTANT DATES:

- Research Workshop Submissions Due from Authors: May 1, 2014
- Acceptance Notifications Will Be Returned to Authors by: June 15, 2014
- Workshop Camera Ready Papers Due from Authors: July 15, 2014
- The Research Workshop will be hosted in conjunction with AMCIS 2014 in Savannah, GA, USA and is scheduled to be held on Thursday, August 7, 2014

RESEARCH WORKSHOP OBJECTIVE:

The research workshop promotes the creation and refinement of scholarship that addresses the intersection of Human-Computer Interaction (HCI) and Health and/or Wellness fields. Several selected papers from the workshop will be invited for further development toward publication in a special issue of AIS Transactions on Human-Computer Interaction (THCI) to be titled "HCI in Health and Wellness".

All related research topics and methods are welcomed; priority will be placed on selecting papers that:

- Clearly address topics relating to HCI and Health and/or Wellness
- Incorporate development and/or empirical evaluation of theory that is testable (i.e., falsifiable)
- Are submitted in substantially complete form

RESEARCH WORKSHOP COST:

There will be no charge for invited authors to attend the workshop.

RESEARCH WORKSHOP FORMAT:

Workshop participants will discuss their work in small groups led by scholars with editorial experience in the areas of HCI, health, and wellness. Discussions will be facilitated so that each author has equitable time to receive feedback. This structure provides opportunity to strengthen the submitted papers for future journal submission.

SUBMISSION, REVIEWING, AND ACCEPTANCE PROCESSES:

- Submit papers as email attachments in Microsoft Word or Adobe Acrobat (PDF) format to Vance Wilson (vancewilson@gmail.com). Expect your submission to be acknowledged within 48 hours.
- All reviewing will be in double-blind format and will be primarily performed by program committee members selected for expertise and interest in the topic area.
- Notification regarding acceptance of your submission will be sent via email to the submitting author.
- Because this is a workshop rather than paper publication venue, there is no restriction on concurrent submission of manuscripts to a conference (such as AMCIS) or a journal.

SUBMISSION FORMAT:

Ideal papers will be no more than 35 pages in length (maximum 8000 words), double spaced, in 12-point Times New Roman font, following THCI guidelines (<http://aisel.aisnet.org/thci/authorinfo.html>). Longer papers will be considered if the length is well motivated.

PROGRAM COMMITTEE CO-CHAIRS:

- Vance Wilson, President, SIG-Health, Worcester Polytechnic Institute (vancewilson@gmail.com)
- Soussan Djamasbi, Past Chair, SIGHCI, Worcester Polytechnic Institute (djamasbi@wpi.edu)

**AMCIS 2014 Healthcare Information Systems and Technology (SIGHealth) Track...****Rich Klein**

We invite the submission of completed research or research-in-progress to the SIGHealth Track of the 20th Americas Conference on Information Systems (AMCIS 2014), scheduled for August 7-10, 2014 in Savannah, Georgia, USA. AMCIS 2014 brings together academics and industry professionals around the world to exchange knowledge. Please submit your research to the following URL <http://mc.manuscriptcentral.com/amcis2014> by March 1, 2014 at 11:59 EST for program consideration. Completed research and research-in-progress are welcome and will be peer-reviewed using a double-blind system.

Completed research presentations will occur during regular AMCIS sessions. Each session consists of 3 or 4 competitive papers accepted through the review process. These paper presentations will occur in a standard format of presentation by an author and general audience discussion. Each completed research session (meeting room) is set up with presentation equipment (i.e., LCD projector and screen). Please note that research-in-progress presentations will occur in a round table format. Accepted completed research and research-in-progress papers presented at AMCIS are published in the conference proceedings.

The SIGHealth Board appreciates all members who volunteer their time to make the SIGHealth Track successful at AMCIS 2014. Please consider volunteering to review one or two papers from the mini-tracks listed below.

Track Chairs:

Rich Klein, Florida International University, kleinrich@yahoo.com

Surendra Sarnikar, Dakota State University, sarnikar@acm.org

Track Description:

Information systems (IS) and technology (IT) innovations offer significant potential to improve quality and efficiency of care delivery, enable new forms of healthcare organizations, enhance interactions between patients and healthcare providers, and transform care delivery. However, to fully exploit the power of IS/IT within the healthcare sector requires overcoming significant challenges. Consistent with the 2014 conference theme, Smart Sustainability, the Information Systems Opportunity, the focuses on opportunities for optimizing the design, implementation, adoption, and use of healthcare IS and IT. Subsequently, efforts might demonstrate and quantify impacts on clinical efficiency as well as efficient communication and coordination among patient, providers, and hospitals/healthcare facilities. We welcome IS and IT studies from a variety of reference perspectives including computer science, economics, organizational behavior, public policy, software engineering, and strategy.

Mini-Tracks:**Role of Technology in Improving Healthcare Delivery Processes**

James (Jim) Ryan, Troy University, jeryan@troy.edu

Yajiong (Lucky) Xue, East Carolina University

Linda Byrd, Auburn University

Healthcare organizations have been redesigning processes and implementing various forms of information technology (IT) to increase productivity, lower costs, and improve the quality of care. Unfortunately, the expected significant improvements in the quality of care and reductions in costs after large health IT investments are often not achieved. Recognizing that significant improvements require more than just deploying IT, this mini-track seeks papers that investigate the role of IT in improving healthcare delivery processes and the opportunities and challenges in IT-enabled change in healthcare organizations. The mini-track is open to papers on the challenges of achieving benefits from information systems and technologies in healthcare delivery, and how those benefits might best be achieved in and across a variety of healthcare settings (e.g., hospitals, ambulatory clinics, in the home). It is also open to a variety of research methods including qualitative, quantitative, and design science approaches. We are especially interested in interdisciplinary approaches, combining for example IT, process design, and managerial and policy initiatives. Because the national context affects health care delivery choices, we are also interested in multi-national studies.



Healthcare Analytics

C. Derrick Huang, Florida Atlantic University, dhuang@fau.edu

Ravi Behara

Jahyun Goo

With the accumulation of data in the vast deployment of HIT, it is expected that Big Data can help healthcare providers and policy makers navigate this treacherous territory. Further, in the U.S., the next stage of EHR implementation will shift towards the effective use of data, under the framework of Meaningful Use (Stage 2 and 3). Analytics can provide the basis on which better decisions can be made to move towards a healthcare system that addresses the combined objectives of lower costs, safe care, effective clinical outcomes, and high patient satisfaction. The need to build analytics competencies among practitioners and researchers is apparent. Given the importance and the challenges of Healthcare Analytics, this mini-track provides a platform for researchers and practitioners to submit original studies on the topic.

Successful and Sustainable Mobile and Electronic Health (mHealth/eHealth) Solutions

Sweta Sneha, Kennesaw State University, ssneha@kennesaw.edu

Ton Spil

Nilmini Wickramasinghe

The objective of this mini-track is to address global healthcare challenges with rising healthcare costs, graying of the globe, and limited resources by soliciting work-in-progress and completed research papers covering technical, organizational, behavioral, economical, and managerial perspectives on mHealth/eHealth that: (1) assess the infrastructure issues towards supporting mHealth/ eHealth; (2) propose and/or evaluate the design, development, and implementation of successful mHealth/ehealth applications; (3) assess the impact of mHealth/eHealth applications on patients, doctors, healthcare organization, and society in general; (4) develop theories to better understand the phenomenon of mHealth and eHealth; and (5) examine mobile applications and sustainability challenges across a specific population segment and/or disease; (6) assess the impact of underlying regulatory, security, and policy issues impacting the mHealth/eHealth domain; and (7) innovation in healthcare practice and delivery utilizing mobile devices. Successful papers maybe fast tracked for a special issue in Health and Technology and /or International Journal Networking and Virtual Organizations.

Security Issues in Health Information Technology

Barbara Hewitt, Texas A&M University

Constance Mussa

Electronic healthcare information systems are essential to the improvement and quality of healthcare service and patients' health. However, the current accelerated adoption of web based health information systems means that many clinicians and non-clinicians, as well as systems that span multiple organizations have access to an individual's medical record. This widespread access to the electronic medical record (EMR) and other health information systems, significantly increases the security threats to an organization's sensitive information, including personally identifiable health information (PHI).. Security threats to electronic health information systems originate from problems related to hardware, software, and/or humans.. Healthcare organizations must develop innovative methods and policies to share, protect, and ensure the integrity, confidentiality and availability of healthcare information. Authors are invited to submit original manuscripts to the Security Issues in Health Information Technology mini track of the 20th Americas Conference on Information Systems (AMCIS 2014). These manuscripts should provide innovative, original research that offer contributions in any area related to security issues in health information technology. Submitted papers must not have been previously published nor submitted simultaneously for publication to any other conference, workshop or journal.



Electronic Medical/Health Records (EMRs/EHRs) in Healthcare Practices

C. Ranganathan, Bentley University

Balaji Sankaranarayanan, Bentley University, bsankara@bentley.edu

Gary David

Electronic Medical/Health Records (EMRs/EHRs) are a critical component of the American health-care system. Healthcare practices face distinct challenges including organizational challenges, resource constraints, and technological bottlenecks. Therefore, there is a growing need to understand the EMR/EHR issues in healthcare practices. The focus of this mini-track is on research on EMRs/EHRs in healthcare practices of various types such as large, ambulatory and smaller practices, that furthers our understanding of (1) systems, processes and strategies for implementing EMR/EHR (2) Electronic exchange of healthcare information among different stakeholders, (3) Integration of mobile devices and medical devices with healthcare systems 3) security and privacy issue associated with EMR/EHR in healthcare organizations. The mini-track is open to both completed and in-progress research, including broad survey articles, case studies, conceptual papers, descriptive reports, focused research issues or problems analyzed using a variety of tools and empirical methodologies.

Pharmaceutical Enterprise Systems and Supply Chain Management Systems

Ahmad Alibabae, Shahid Beheshti University of Medical Sciences, a.alibabaei@sbmu.ac.ir

Pharmaceutical industry processes have some specific characteristics, and Pharmaceutical supply chain is more complex rather than many of industries. Product characterization, regulatory requirements, cost considerations, quality assurance and compliance, different margin of patent products and generics and special storage condition of biopharmaceuticals are some of issues that influence organizational processes in pharmaceutical filed. In addition of mentioned items, some other issues such as new delivery methods including direct to patient (DTP) for some special drug affect managing the supply chain. Using Information Systems can have a significant role in handling these issues by managing and integrating data and information among the organization and its value chain. Therefore, designing and implementation of enterprise systems and supply chain management systems are very important in this era.

Information Technology for Global Health

Joseph Tan

James (Jim) Ryan, Troy University, jeryan@troy.edu

Michael Dohan

As global interconnectedness increases, the impact of health problems are not efficiently addressed from a purely national standpoint. Therefore, a concerted effort among governments, multidisciplinary efforts, and other institutions, in efforts that span national boundaries, is the new emerging approach to deal with these issues. This approach, known as global health, entails using this multidimensional approach to address transnational health issues, specifically including HIV/AIDS, rural healthcare service delivery, and other health issues affecting the world population.

This minitrack will explore emerging trends for applying innovative health IT solutions to improve general population and community healthcare across the globe, including low-cost, mobile and other emerging health technological applications. These solutions will provide a multinational perspective on the benefits of mobile health and other emerging information technologies and describes different examples and applications implemented. This minitrack will consider empirical research, reviews of current literature, theory, methodology, as well as relevant position papers.



Smart and Connected Health for Wellbeing: Consumer-Centric Healthcare Systems

Bernard Han, Western Michigan University, bernard.han@wmich.edu

Benjamin Schooley

Wu-Chyuan Gau

This mini-track is entitled “Smart and Connected Health for Wellbeing” with an emphasis on the consumer centric and learning health information systems that empower patients to manage their health better and maintain a healthier lifestyle. Smart Health Information Systems enable consumers to take control of their own health and wellbeing. Examples of such systems include several non-clinical technologies such as web-based interfaces, mobile applications, social health technologies, and medical devices such as accelerometers and sensors. In addition, a number of clinical consumer centric technologies support better health management. Online health information portals, tele-health solutions, personal health records (PHR) and persuasive technologies provide consumers opportunities to manage their own care better and be active participants in their care teams. It is important to study the design requirements that are essential for usable consumer-centric health information systems and successful implementations. Through studying user expectations and attitudes towards these systems, we can better guide implementations and policy decisions. ■

Quick Response Code (QR code) for SIGHealth...

Mike Dohan



QR code (abbreviated from Quick Response Code) is a type of matrix barcode that has gained commonality with the advent of smart phones. QR's provide quick and effortless access to websites and thanks to Mike, here is SIGHealth's very own QR. ■

Networking Opportunities...

Spread the word: SIGHealth is a group on 

2014 Renewal of AIS Membership and Re-designating SIGHealth Interest

Many colleagues renew their AIS membership during conference registration. Please be aware that when you renew your AIS membership, you must also re-designate your interest in SIGHealth. Currently, membership in SIGHealth is \$10 USD per year. Not sure if you have paid your SIGHealth membership? A current listing of SIGHealth members is available on the SIGHealth Web page www.aissighealth.com. ■

April 2014... E-health and Telecommunications in Healthcare (ETH) Mini-Symposium at WTS 2014

Dates: April 9 – 11, 2014
 Location: Washington, D.C., USA
 Paper Submission: Completed January 19, 2014

WTS 2014
 April 9-11 in Washington, D.C.

[More Details...](#)

June 2014... 22nd European Conference on Information Systems (ECIS)

Dates: June 6 – 13, 2014
 Location: Tel Aviv, Israel
 Paper Submission: Completed December 8, 2013
 Registration: Early registration ends April 16, 2014

ECIS 2014
 22nd European Conference on Information Systems
 9-11 June 2014, Tel Aviv

[More Details...](#)



August 2014... 20th Americas Conference on Information Systems (AMCIS)

Dates: August 7 – 10, 2014
Location: Savannah, Georgia
Paper Submission: Due March 1, 2014
Registration: Begins May 2014



[More Details...](#)

December 2014... International Conference on Information Systems (ICIS)

Dates: December 14 – 17, 2014
Location: Auckland, New Zealand
Paper Submission: Due May 3, 2014
Registration: Begins July 2014



[More Details...](#)

Publication Opportunities...

CFP...Health Systems Journal

Palgrave Macmillan and the OR Society have launched Health Systems, a new interdisciplinary journal. Health Systems will provide insights and perspectives to advance health systems knowledge in research and practice.

[More Details...](#)

