

Special Interest Group in Healthcare Association for Information Systems



SIGHealth Newsletter

Volume 5 ■ Issue 1 ■ April 2012

Editor's Notes...

Greetings!

We have revised the frequency of our SIGHealth newsletter into a quarterly format, with plans to publish future issues in July, September, and January. In this issue, our first article reports the activities and plans of our new SIGHealth president, Vance Wilson. Congratulations to Vance and many thanks for his service on the SIGHealth board. The other feature articles from Rich Klein offer details on paper and poster submissions for the up-coming AMCIS and ECIS conferences, as well as a quick response code (QR) created by our Web-master, Mike Dohan.

Growing and enhancing our SIGHealth knowledge-base benefits our SIG, our members, and our students. To this end, we would like to continue our 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 established 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).

Our officers would like to remind the membership of the planned formal business meeting to be held during AMCIS 2012. Please remember that AMCIS registration beings May 1st and we hope your schedule affords you time to join the SIG membership in Seattle. In the meantime, please remember to re-designate your membership in SIGHealth when you renew your AIS membership during conference registration.

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,

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Feature Articles...

President's Report...

Vance Wilson

It has been a busy several months since taking office in January. SIG-Health has made advances in a number of areas, many of which may not have been readily visible to members. So let me recount what has happened so far in 2012.

January—AIS Executives sent new bylaw requirements to Chapters and SIGs, including SIG-Health. Under the new bylaws, SIG members vote for a President Elect, who subsequently cycles through President and Immediate Past President positions on a two-year basis. This change was designed to enhance stability and organizational memory in Chapters and SIGs. In addition, AIS required election of Secretary and Treasurer positions. Current SIG-Health board members set about revising our bylaws to meet AIS standards.

Diane Strong and I released a Call for Papers for a special section in Communications of the Association for Information Systems (see <http://aisel.aisnet.org/cais/>) on Patient-Centered E-Health. The October 1, 2012 deadline for this CFP was chosen to allow authors of AMCIS, ICIS, and HICSS papers time to extend and submit their work in the topic area.

February—A Bylaw Review Committee comprising SIG-Health members Ann Fruhling, Jim Ryan, Bengisu Tulu, Vice Chair Terry Byrd, and Chair Vance Wilson completed its review. Committee members unanimously recommend that SIG-Health members approve a set of revised bylaws conforming to AIS standards.

March—The revised SIG-Health Bylaws were put to a vote by members; a quorum of members approved the revision on March 15. As a results of this vote:

- Vance Wilson's title changed from Chair to President
- Rich Klein was instated as Immediate Past President
- Terry Byrd's title changed from Vice Chair to At-Large Director
- Secretary, Treasurer, and Chair Elect positions are scheduled to be filled by member vote this summer

April—I prepared and submitted to AIS the revised SIG-Health Bylaws and 2012 Annual Report (linked under Bylaws and Records at <http://www.aissighealth.com>).

Upcoming Events—SIG-Health will host a half-day professional development workshop at AMCIS 2012 with components focusing on Health-IS Research and Teaching. This workshop is targeted toward:

- Current Ph.D. students interested in Health-IS topics
- Early-stage academics who teach or research in Health-IS areas
- Senior academics who want to enter the Health-IS domain

Stay tuned for more information!

My Plan—SIG-Health has a strong base of 150 current (paid-up) members, and my goal is for the SIG to provide maximum value to members. To that end, I plan to focus during my term as President on the following activities:

1. Supporting research publication opportunities by promoting health-IS topics, hosting special journal issues and conference tracks, and coordinating availability of health-IS reviewers to mainstream IS journals and conferences
2. Supporting promotion and tenure efforts of health-IS researchers
3. Providing online resources across health-IS disciplines (a special shout-out here to our lineage of first-rate webmasters, Mike Dohan (currently) and Alex McLeod (previously))
4. Producing SIG-Health workshops and meetings that are collegial, fun, and informative.

Feel free to email me any time with any idea or question regarding SIG-Health. I look forward to seeing you online and in person at upcoming SIG-Health events.

Vance Wilson,
SIG-Health President (2012-2014)



AMCIS 2012 SIGHealth Papers & Posters...

Rich Klein

A total of 54 submissions were made to AMCIS 2012 SIGHealth mini-tracks. As a result, we have 31 papers and 10 posters accepted for presentation in Seattle. Please remember that AIS has a strict registration policy for authors who wish to present their papers as well as have them published in AMCIS proceedings (please visit the following website for details: <http://home.aisnet.org/displaycommon.cfm?an=1&subarticlenbr=922>). The following list identifies papers and posters by mini-track, title, and submitting author.

Papers

Adoption and Meaningful Use of Electronic Health Record (EHR) Technology

“*A Profile of Rejecters of Electronic Medical Record Technology*”, Andrew Schwarz

“*EHR Adoption Implications for Hospitals*”, Ulku Yaylacicegi

“*Evaluating the impact of EHR on clinical reasoning performance: A TTF perspective*”, Matthew Wills

“*Extending the Technology Acceptance Model in Healthcare: Identifying the Role of Trust and Shared Information*”, Sabrina Terrizzi

“*Factors Influencing Patients Perceptions toward Electronic Medical Record (EMR) Use: A Conceptual Model*”, Mohammed Rahman

“*Impact of Software Ecosystems on the Implementation of Open Source-Based Electronic Health Record Software*”, Donald Wynn

“*Information Security Principles for Electronic Medical Record (EMR) Systems*”, Mohammed Rahman

“*The Influence of EHR Components on Admission Decisions*”, Ofir Ben-Assuli

Data Management, Mining, and Analytics for Healthcare

“*Automated Transformation of Semi-Structured Text Elements*”, Johannes Heurix

Role of technology in improving health care delivery processes

“*Does Electronic Physician-to-Patient Communication Improve the Quality of Care in an Ambulatory Setting?*”, James Wolf

“*Healthcare Delivery Systems: Designing Quality into Health Information Systems*”, Phil Joyce

“*Implementing Radio Frequency Identification within the Perioperative Process: A Case Study Perspective*”, James Ryan

“*IT-Governance in Hospitals - The Case of Business Process Alignment in Healthcare Networks*”, Martin Juhrisch

“*The Needs of System Integration in Hospital Operation Room Scheduling: Implications from A Case Study*”, Jun He

“*Whole Networks versus Inter-organizational Systems: Exploring Common Ground for US E-prescribing*”, Nelson King

Smart Health and Wellbeing: Consumer-Centric Healthcare Systems

“*Consumer Perceptions of the Adoption of Electronic Personal Health Records: An Empirical Investigation*”, Mihail Cocosila

“*Cues from Doctor: Role of Media in Reinforcing Life Changing Interventions*”, Kaushik Ghosh

“*Investigating the Reciprocal Relationships Within Health Virtual Communities*”, Nima Kordzadeh

“*Patient-Centered E-Health: A Status Report*”, Vance Wilson

“*Sustaining Gains: GIS Enabled Model for Diabetes Self-Care*”, Joanne Adeyemi

“*Tapping into the Health Wisdom of Crowd: Trends in Healthcare Social Networks*”, Alaa Al-Kadi



Successful and Sustainable eHealth and mHealth Solutions

“Adoption of Pervasive e-Health Solutions: The Need For an Appropriate Regulatory Framework”, Nilmini Wickramasinghe

“Architecture and Design of a Patient-Friendly eHealth Web Application: Patient Information Leaflets and Supplementary Services”, Ali Sunyaev

“Using Mobile Multimedia System to Improve Information Exchange in EMS.”, Yousef Abed

Systems-oriented Clinical Informatics

“A Roadmap to Evaluate Lean Six Sigma E-Health Reference Architectures Using a Fuzzy Group Bi-Objective LINMAP”, Faramak Zandi

Technical, Social and Economic issues in exchanging Patient Health Information with EHR, EMR and HIE

“Security Practices and Regulatory Compliance in the Healthcare Industry”, Juhee Kwon

“Spinning the Web of Care: Logics of IT in Healthcare”, Anthony Baroody

“The Role of Demographic Characteristics in Health Care Strategic Security Planning”, Sushma Mishra

Telemedicine: Advances, Opportunities, and Challenges for Information Systems

“Tailoring Software Process Capability/Maturity Models for Telemedicine Systems”, Christiane Gresse von Wangenheim

“Technology and the Internet as a key component in psychosocial care of Somatic diseases”, Ruth Lochan

“Understanding Dynamic Collaboration in Teleconsultation”, Ziyu Yan

Posters

Adoption and Meaningful Use of Electronic Health Record (EHR) Technology

“Effective Implementation of Electronic Medical Record Systems: Insights from a Longitudinal Case Study”, C Ranganathan

“Pilot Study: Converging Technology Acceptance and Change Management in a Speech Recognition Model”, Charles Dimitry

“System Design and its effect of Selected Components of Meaningful Use for an Electronic Health Record (EHR) Software”, Wenying Sun

Moving Beyond Hospital-based Electronic Medical Records: Improving Healthcare IT's Reach

“Keeping Electronic Medical Records Secure and Portable”, Luay Wahsheh

“Knowledge Contribution in Online Patient to Patient Health Care Communities”, Benjamin Kuo

Role of technology in improving health care delivery processes

“Method Engineering Approach to the Adoption of Information Technology Governance, Risk and Compliance in the Hospital Environment”, Mike Krey

“Mobile health (m-health) for expanding health care services in Sub Saharan Africa (SSA): A Task- Technology Fit (TTF) perspective”, Philip Musa

Smart Health and Wellbeing: Consumer-Centric Healthcare Systems

“Towards Evaluating Ambient Assisted Living: State-of-the-Art Use of Measures”, Ruediger Breitschwerdt

Successful and Sustainable eHealth and mHealth Solutions

“Strategies Towards Chronic Disease Management via Medication Compliance”, Sweta Sneha

Telemedicine: Advances, Opportunities, and Challenges for Information Systems

“The Emerging Role of Robotics in Home Health Care”, Bengisu Tulu



ECIS 2012 SIGHealth Papers...

Rich Klein

SIGHealth mini-tracks also had 54 paper submissions to ECIS 2012. As a result, we have 15 papers and 5 posters accepted for presentation in Barcelona. The following list identifies papers and posters by mini-track, title, and author(s):

Papers

EHT-1: Mobile Health (m-Health):

161, A MOBILE PHONE-BASED ICT SOLUTION FOR REPORTING AND TRACKING UNREPORTED REPRODUCTIVE HEALTH PROBLEMS IN THE OUTLIER COMMUNITIES OF KERALA, INDIA, Thomas Manoj (Virginia Commonwealth University), Narayan Poornima (SCMS School of Technology and Management), Christian Cynthia

420, FROM PILOT TO SCALE: TOWARDS A MHEALTH TYPOLOGY FOR LOW RESOURCE CONTEXTS - Sanner Terje (University of Oslo)

592, INDIVIDUAL INFUSION OF M-HEALTH TECHNOLOGIES: DETERMINANTS AND OUTCOMES - OConnor Yvonne (University College Cork), ORahailigh PJ (International Energy Research Centre), ODonoghue John (University College Cork)

EHT-2: E-health strategy:

685, FACTORS INFLUENCING LONG TERM DYNAMICS OF HEALTH CARE SUPPLY AND DEMAND - Smits Martin (Tilburg University), Roos Egbert

798, HOW TO SUCCESSFULLY APPLY CRITICAL SUCCESS FACTORS IN HEALTHCARE INFORMATION SYSTEMS DEVELOPMENT; A STORY FROM THE FIELD - Aggestam Lena (VGR), van Laere Joeri (University of Skovde), van Laere Joeri (University of Skovde)

237, WHAT IS THE BUSINESS MODEL BEHIND E-HEALTH? A PATTERN-BASED APPROACH TO SUSTAINABLE PROFIT - Mettler Tobias (University of St. Gallen), Eurich Markus (ETH Zurich)

EHT-3: On-line health:

273, SUPPORTING THE THERAPIST IN ONLINE THERAPY - Sjostrom Jonas (Informatics and Media; Public Health and Caring Sciences), Alfonsson Sven

718, A PROPOSITION OF CRITICAL SUCCESS FACTORS INFLUENCING SOA IMPLEMENTATION IN HEALTHCARE - Koumaditis Konstantinos (University of Piraeus), Themistocleous Marinos, Mantzana Vasiliki, Souliotis Kiriakos (UNIVERSITY OF PELOPONNESE)

537, NFC-BASED ELECTRONIC DATA CAPTURE SYSTEMS à THE CASE OF A QUALITY OF LIFE QUESTIONNAIRE - Prinz Andreas (Kassel University), Menschner Philipp (Kassel University), Leimeister Jan Marco (University of Kassel)

EHT-4: Electronic Health / Medical Records:

35, CHALLENGES OF COORDINATION USING ELECTRONIC HEALTH RECORDS: A GENRE ANALYSIS - Newell Sue (Bentley University, USA and Warwick University, UK), Davd Gary (Bentley University)

706, TECHNOLOGY INNOVATION IN THE FACE OF UNCERTAINTY: THE CASE OF "MY HEALTH RECORD" - Vassilakopoulou Polyxeni (National Technical University of Athens), Grisot Miria (University of Oslo)

839, UNDERSTANDING METHODS TO REDUCING REDUNDANT MEDICAL LAB TEST ORDERING - A CASE STUDY ON VISTA/CPRS AND THE VETERANS HEALTH ADMINISTRATION - Obal Lorie (Veterans Health Administration), Chatterjee Samir, Kleinman Leonard



EHT-5: Clinical Systems:

726, APPLICATION OF ACTIVITY THEORY TO ELICITATION OF USER REQUIREMENTS FOR A COMPUTERIZED CLINICAL PRACTICE GUIDELINE: THE ActCPG CONCEPTUAL FRAMEWORK - Andreev Pavel (University of Ottawa), Michalowski Wojtek (University of Ottawa), Kuziemyk Craig (University of Ottawa), Hadjiyannakis Stasia (Childrens' Hospital of Eastern Ontario)

601, TOWARDS COMPLIANCE IN ORGANIZATIONAL ENGINEERING - A CASE STUDY - Juhirsch Martin (TU Dresden)

401, STROKE MANAGEMENT AS A SERVICE - A DISTRIBUTED AND MOBILE ARCHITECTURE FOR POST-ACUTE STROKE MANAGEMENT - Garlitz Roland (FZI Forschungszentrum Informatik), Rashid Asarnusch

Posters

10, DESIGNING JUDGEMENT DEVICES: INFORMATION NEEDS IN THE CHOICE OF PRIMARY HEALTHCARE PROVIDER - Ranerup Agneta (Department of applied IT)

557, CONSUMERS' PERCEPTIONS OF A VIRTUAL HEALTH CHECK: AN EMPIRICAL INVESTIGATION - Lehto Tuomas (University of Oulu), Oinas-Kukkonen Harri (University of Oulu), Patiala Timo (Duodecim Medical Publications Ltd.), Saarelma Osmo (Duodecim Medical Publications Ltd.)

764, DESIGN OF AN INTEGRATED EHEALTH PLATFORM FOR RURAL AND MARGINALIZED CONTEXTS - Thinyane Mamello (University of Fort Hare), Moorosi Nyalleng (University of Fort Hare)

785, TOWARDS A TYPOLOGY FOR TELEMEDICAL SERVICES - Peters Christoph (Kassel University), Menschner Philipp (Kassel University)

792, INVESTIGATING THE FACTORS THAT COULD IMPACT THE INTENTION TO USE A NEW MEDICAL TECHNOLOGY: CASE STUDY OF AUSTRALIAN TELEHEALTH SYSTEM WHERE DIGITAL STETHOSCOPES ARE DEPLOYED - Soroush Layla (Griffith University) ■

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 smartphones. QR's provide quick and effortless access to websites and thanks to Mike, here is SIGHealth's QR. ■

Networking Opportunities...

Spread the word: SIGHealth is a group on 

May 2012...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.

[More Details...](#)



June 2012... 20th European Conference on Information Systems

Dates: June 10 – 13, 2012
Location: Barcelona, Spain
Registration: Open until May 20 and late registration begins May 21.



[More Details...](#)

July 2012... 16th Pacific Asia Conference on Information Systems

Dates: July 11 – 15, 2012
Location: Ho Chi Minh City, Vietnam
Registration: Early until June 11 and regular after June 11



[More Details...](#)

August 2012... 18th Americas Conference on Information Systems

Dates: August 9 – 11, 2012 (AMCIS starts on Thursday PM this year.)
Location: Seattle, Washington
Registration: Early begins May 1 and regular after June 19



[More Details...](#)

August 2012... AMCIS Panel | Reflecting on the Role of IT and IT Research in Healthcare: Moving Healthcare Research into Practice

Date / Time: Thursday AM, August 9, 2012
Location: Sheraton Seattle, Room TBA

Today's healthcare organizations face challenges of unprecedented complexity, breadth and intensity. Only a fraction of new scientific discoveries enter day-to-day clinical practice. To aid in the implementation of research into practice, healthcare organizations frequently turn to technology. However, even with the aid of technology, research often fails to be fully integrated into patient treatment. Part of the reason is due to the complexity of the healthcare system, which includes patients, providers, management, and local community input, all of which are influenced by the current political and economic environment. In addition, some authors have noted that studies have often lacked a rigorous scientific approach that would aid in predicting success in future implementations. Panelists will consider how the foundation theories and research in IT, as well as information technology itself, can be used to inform and facilitate the implementation of healthcare research into practice. Participation from the audience will be encouraged.

Panel Speakers:

Priscilla A Arling (Moderator), Gordon Gao, Richard Klein, and E. Vance Wilson

[More Details...](#)

Publication Opportunities...

CFP... CAIS Special Section on Patient-Centered E-Health

Our objectives in creating this special section are to explore, clarify, and expand the emerging PCEH field. We are soliciting papers from all research perspectives and disciplines and from all parts of the world.

Key Dates:

- Submit abstract for comment by June 30, 2012 (recommended but not required)
- Submit paper by October 1, 2012

[More Details...](#)

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...](#)



CFP... 46th Hawaii International Conference on System Science

Information Technology in Healthcare Track:

Addressing the complexities of today's healthcare issues requires more than one perspective. The Information Technology in Healthcare Track serves as a forum at which healthcare, computer science, and information systems professionals can come together to discuss issues related to the application of information technology in healthcare. In bringing technical, behavioral, clinical, and managerial perspectives together, this track provides a unique opportunity to generate new insights into healthcare problems and solutions.

- Data Analysis and Visualization in Biomedical Informatics
- HCI and Consumer Health Informatics
- IT Adoption and Evaluation in Healthcare
- IT Architectures and Applications in Healthcare Environments
- IT Innovation for Change in Healthcare

Key Dates:

- Papers due June 15
- Authors notified August 15

[More Details...](#)
