Editor's Notes...

Late Fall greetings!

As we move into a new year, I would like to extend a sincere thank you to our immediate past-president Gondy Leroy for all of her dedicated service to the SIGHealth community over the past two years. Many, many thanks Gondy for your contributions and our SIG's success over the past two years, which includes being named an AIS Outstanding SIG in 2015 and again in 2016.

We have a full line-up of SIGHealth opportunities highlighted in our last 2016 newsletter. Our first article is an update from our new president, Surendra Sarnikar, on SIGHealth activities. The other feature articles in this issue recap our member's submissions for Best Paper Awards Published in 2015 and the winners, as well as the SIGHealth minitracks scheduled for the upcoming AMCIS 2017 in Boston.

On a side note, our upcoming AMICS 2017 in Boston has two conference co-chairs in Diane Strong and Janis Gogan, as well as many of the conference committee members, who are very familiar to the SIGHealth community. I encourage you to visit the AMCIS 2017 conference Website. AMCIS in Boston promises to be an outstanding conference and the SIGHealth Board encourages all of our community to participate and attend as your schedules allow.

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. Please use our 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.
sighealthnewsletter@gmail.com

Feature Articles…

President's Report…   **Surendra Sarnikar**

Hello SIGHealth members!

Wow, it is hard to believe a whole year has passed and I have transitioned as your new SIGHealth President. I hope you have had a productive 2016 and a wonderful holiday season.

Looking back, I would like to extend a big thank you to immediate past-president Gondy Leroy for all her efforts the last 2 years as SIGHealth President and a number of achievements including instituting the SIGHealth Best Paper Award, SIGHealth advisory board, SIGHealth journal survey, and two consecutive years of AIS Outstanding SIG awards. We look forward to continuing these traditions and adding new ones.

This is the second year in a row that SIGHealth has been awarded the AIS Outstanding SIG Award. The award is given to SIG's that add to the AIS goal of advancing Information Systems and is based on SIG activities including conference tracks and workshops. I would like to thank all our SIGHealth track and mini-track chairs at AMCIS, ECIS and PACIS who dedicated their time and effort for providing researchers a forum for the advancement of Health IT research.

I am happy to inform you that SIGHealth has hosted its very first Pre-ICIS SIGHealth workshop in 2016. The workshop had 28 papers accepted and 36 attendees. Thanks to co-chairs Matt Wimble, Gondy Leroy and Wendy Currie for a very successful workshop. Our hope is to make this a regular feature in the upcoming years. Thank you all for being a part of the SIGHealth community and best wishes for a fantastic 2017.

Surendra Sarnikar, PhD
SIGHealth President (2016-2018)

Our current elected officers, through August 2018, who make-up our SIGHealth Board are:

Immediate Past-President	*Gondy Leroy*	*gondyleroy@email.arizona.edu*
President	*Surendra Sarnikar*	*sarnikar@acm.org*
President-Elect	*Monica Chiarini Tremblay*	*tremblay@fiu.edu*
Secretary	*Renée Pratt*	*rpratt@isenberg.umass.edu*
Treasurer	*Jim Ryan*	*jryan@aum.edu*

Best Paper Awards 2016…   **Gondy Leroy**

SIG-Health again sponsored a Best Published Paper Award at AMCIS 2016. Awarding a Junior and a Senior Researcher category recipient as well as a Meritorious Mention. Junior Researchers are first authors who are students at the time the paper was published, while all other first authors will be considered to be a Senior Researcher. All papers considered were published during 2015, where recipients are current SIGHealth members. The judging criteria on innovation, impact, implementation, and appeal was established in 2014.

Review Criteria:

Innovation:	*Impact:*	*Implementation:*	*Appeal and Readability:*
Are new strategies and/or approaches described?	*Does the paper address a real problem?*	*Is the innovation operational?*	*Is there broad interest in the problem across industries and cultures?*
Do they improve current practices?	*Is the problem solved or diminished?*	*What is the breadth of the implementation?*	*Will the paper appeal to SIG-Health membership?*
Do they enhance knowledge?	*Is a significant part of an organization, population or the world impacted?*	*Is the approach/knowledge applicable to others?*	*Is the paper brief, clear, and to the point?*

The Best Paper Awards were presented at AMCIS 2016 during the SIGHealth annual business meeting. This year we had 17 published paper submissions over 14 different journals and conference proceedings. Many thanks to Jim Ryan (chair), Mike Dohan, Pasi Karppinen, Tonia San Nicolas-Rocca, Sumantra Sarkar, and Ben Schooley, who all served on the review committee and used the establish judging criteria to score the following published papers submitted from fellow SIGHealth members.

Submissions:

Burns, A.; Young, J.; Roberts, T.; Courtney, J.; & Ellis, T., (2015) "Exploring the role of contextual Integrity in electronic medical record (EMR) system workaround decisions: An information security and privacy perspective," *AIS Transactions on Human-Computer Interaction*, 7(3), 142-165.

Davidson, E.; Østerlund, C.; & Flaherty, M., (2015). "Drift and shift in the organizing vision career for personal health records: An investigation of innovation discourse dynamics," *Information and Organization*, 25, 191-221.

Gao, G.; Greenwood, B.; Agarwal, R.; & McCullough, J., (2015). "Vocal minority and silent majority: How do online ratings reflect population perceptions of quality?," *MIS Quarterly*, 39(3), 565-589.

Liu, X. & Chen, H., (2015). "A research framework for pharmacovigilance in health social media: Identification and evaluation of patient adverse drug event reports," *Journal of Biomedical Informatics*, 58, 268 – 279.

Merhi, M. (2015). "A process model leading to successful implementation of electronic health record systems," *International Journal of Electronic Healthcare*, 8(2-4), 185 – 201.

Miloslava P.; Andres, S.; & Chatterjee, S. (2015). "A Taxonomy of mHealth Apps -- security and privacy concerns", *Proceedings of the 48th Hawaii International Conference on System Sciences*, Poipu, Kauai, 3187-3196.

Payton, F. & Kvasny, L., (2016). "Online HIV awareness and technology affordance benefits for black female collegians — maybe not: the case of stigma," *Journal of the American Medical Informatics Association*, 23(6), 1121-1126.

Schooley, B.; San Nicolas-Rocca, T.; & Burkhard, R., (2015). "Patient-provider communications in outpatient clinic settings: A clinic-based evaluation of mobile device and multi-media mediated communications for patient education," *Journal of*

Medical Internet Research - mHealth and uHealth, 3(1), 1-15.

Sherera, S.; Meyerhoefer, C.; Sheinberg, M.; & Levick, D., (2015). "Integrating commercial ambulatory electronic health records with hospital systems: An evolutionary process," *International Journal of Medical Informatics*, 84, 683 – 693.

Spyros, K.; Paré, G.; & Jaana, M., (2015). "Effects of home telemonitoring interventions on patients with chronic heart failure: An overview of systematic reviews," *Journal of Medical Internet Research*, 17(3), 1-30.

Somanchi, S.; Adhikari, S.; Lin, A.; Eneva, E.; & Ghani, R., (2015). "Early prediction of cardiac arrest (Code Blue) using electronic medical records," *Proceedings of the 21ˢᵗ ACM SIGKDD Conference on Knowledge Discovery and Data Mining*, 2119 – 2196.

Srivastava, S. & Shainesh, G., (2015). "Bridging the service divide through digitally enabled service innovatons: Evidence from Indian healthcare service providers," *MIS Quarterly*, 39(1), 1-24.

Ram, S.; Zhang, W.; Williams, M.; & Pengetnze, Y., (2015). "Predicting asthma-related emergency department visits using big data," *IEEE Journal of Biomedical and Health Informatics*, 19(4), 1216 – 1233.

Tong, Y.; Tan, S.; & Teo, H., (2015). "The road to early success: Impact of system use in the swift response phase," *Information Systems Research*, 26(2), 418 – 436.

Tulu, B.; Trapp, A.; Strong, D.; Johnson, S.; Hoque, M.; Trudel, J.; & Garber, L., (2015). "An analysis of patient portal utilization: What can we learn about online patient behavior by examining portal click data?," *Health Systems*, 1-14.

Weeger, A. & Heiko, G. (2015). "Acceptance and use of electronic medical records: An exploratory research to explain hospital physicians' salient beliefs about health IT systems," *Health Systems*, 4(1), 64-81.

Yeow, A., & Goh, K., (2015). "Work harder or work smarter? Information technology and resource allocation in healthcare processes," *MIS Quarterly*, 39(4), 763-795.

Congratulations to the Best 2015 Published Papers:

Senior Scholar Submission - Adrian Yeow & Kim Huat Goh.

Junior Scholar Submission - Sriram Somanchi, Samrachana Adhikari, Allen Lin, Elena Eneva & Rayid Ghani.

Meritorious Mention

Senior Scholar Submission -Yu Tong, Sharon Swee-Lin Tan & Hock-Hai Teo.

Junior Scholar Submission - Xiao Liu & Hsinchun Chen.

AMCIS 2017 SIGHealth Minitracks...   **Rich Klein**

We hope you will make plans to attend AMCIS 2017 in Boston! This year's theme, *A Tradition of Innovation*, reflects the program chairs' desire to highlight IS studies that build on previously-reported research and IS studies that take innovative new methodological or theoretical directions and address emerging technology challenges to strengthen or extend existing theories and propose new theories. SIGHealth is sponsoring the Healthcare Informatics & Health Information Technology Track, composed of six mini-tracks. Below is a listing of the track and mini-track descriptions, along with the respective chairs.

Healthcare Informatics & Health Information Technology Track Description
The Healthcare Informatics and Health Information Technology (HIT) track seeks to promote research into ground breaking technology innovations and applications within the healthcare sector, while incorporating interdisciplinary theoretical perspectives and methodological approaches beyond the traditional information systems (IS) and health information technology (HIT) disciplines. Information systems and technology (IT) innovations offer significant potential to transform the delivery of care, to improve the quality and efficiency of the healthcare system, to enhance interactions between patients/caregivers and providers, and to enable greater access to the latest advancements in treatments, among other accomplishments and outcomes. Academic efforts within the Healthcare Technology and Systems track should demonstrate novel work within the IS discipline as well as reference perspectives including computer science, economics, organizational behavior, public policy, public health, software/electrical engineering, management, and strategy, among others. Completed research and research-in-progress topics might include, opportunities and challenges faced within the current healthcare sector; advances in healthcare information technologies (HIT), electronic health (e-health), telemedicine, and mobile health (m-health), among other innovative technological applications; as well as healthcare industry-specific issues related to

traditional IS research concerns, including adoption and diffusion, systems design and implementation, and IS success.

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

Mini-Track 1: Electronic Resources for the Aging Society

All developed economies face the challenge of aging societies. Not only is the percentage of the elderly within the population growing, they are also getting older then generations before. This trend puts tremendous pressure on social and healthcare systems around the world. Electronic resources (wearables, apps, websites, virtual discussion groups, social media etc.) provide a perspective to enable seniors to life longer in self-contained circumstances then today. The minitrack addresses these challenges and opportunities by providing a forum to share high quality research on all aspects of electronic resources which benefit the aging society. We welcome empirical and conceptual work as well as design science papers. All research which adds to our understanding how electronic resources are accepted and used by seniors and what benefit they provide is in scope of the minitrack. We explicitly welcome papers dealing with policy implications and resulting recommendations.

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Wendy Currie, Audencia Business School, wcurrie@audencia.com

Doug Vogel, eHealth Research Institute, Harbin Institute of Technology, vogel.doug@gmail.com

Mini-Track 2: Healthcare Analytics

The healthcare industry is experiencing fundamental transformation. Clinical challenges, aging populations, and cost overrun have significantly complicated the healthcare delivery in the United States and around the world. And there is increasing pressure on healthcare providers and payers (including the governments) to provide more with less—reducing costs and improving coordination and outcomes—all while being more patient centric with added complexity of care. And it is commonly believed that this industry transformation and complexity of care will only increase in the coming years, for instance with services like personalized medicine and mobile health. 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. 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.

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Mini-Track 3: Information Technology for Global Health

As global interconnectedness increases, the impact of health problems are not efficiently addressed from a purely national standpoint. Therefore, a concerted effort among governments, 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 the use of a multidimensional strategies to address transnational health issues, specifically including HIV/AIDS, rural healthcare service delivery, and other health issues affecting the world population. This minitrack explores 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 technological applications oriented towards healthcare. Such solutions will provide a multinational perspective on the benefits of mobile health and other emerging information technologies and describe different examples and applications implemented. This minitrack will consider empirical research, reviews of current literature, theory, methodology, and relevant position papers.

Joseph Tan, McMaster University, tanjosep@mcmaster.ca

Kaushik Ghosh, Lamar University, kghosh@lamar.edu

Michael S. Dohan, Lakehead University, msdohan@lakeheadu.ca

Mini-Track 4: Medical Apps & Mobile Health (mHealth) Solutions for Health and Wellness Management

Healthcare systems globally are contending with the monumental challenge of providing quality care to an aging populace as well as facilitating the monitoring and management of exponentially increasing chronic disease such as diabetes, obesity and cancer. This is made more difficult in an environment of increasing healthcare costs (approximately 17% of GDP in US) with limited human resources. Mobile Health (mHealth), and Medical Apps open the door to the possibility of pervasive anytime, anywhere, for anyone delivery of healthcare services. The objective of this mini-track is to identify appropriate, efficient and sustainable solutions to effect superior wellness management and healthcare delivery by soliciting work-in-progress and completed research papers covering technical, organizational, behavioral, economical, and/or managerial perspectives on mobile Apps and mHealth solutions Further, key areas such as barriers and facilitators including policy, compliance to standards, privacy and security requirements are essential considerations.

Nilmini Wickramasinghe, Epworth HealthCare & Deakin University, nilmini.work@gmail.com

Ton Spil, University of Twente, a.a.m.spil@utwente.nl

Doug Vogel, Harbin Institute of Technology, isdoug@hit.edu.cn

Mini-Track 5: Health Information Privacy And Security

The type and number of organizations that handle health data is multifarious and growing. To complicate matters further, the use of technologies such as internet-connected medical devices and telemedicine is also on the rise. Furthermore, handlers of health data face a wide variety of complex regulatory compliance issues. For these reasons, the protection of health information is distinctive and merits a focused research effort. This mini-track aims to highlight a wide range of research focused on the protection of health information. Research and results from this mini-track will bring light to unique data protection issues in healthcare. This mini-track encourages interdisciplinary research, a wide variety of approaches, and both completed and in-progress research papers.

Nancy Martin, Southern Illinois University Carbondale, nlmartin@siu.edu

David T. Green, Governors State University, dgreen@govst.edu

Mini-Track 6: Role of Technology in Improving Healthcare Delivery Processes

Healthcare organizations redesign processes and implement various forms of information technology (IT) to increase productivity, lower costs, and improve quality of care. Unfortunately, large health IT investments often do not achieve the expected levels of improvement. Recognizing that significant improvements require more than just deploying IT, this minitrack seeks papers that investigate the role of information systems (IS) and IT in improving healthcare delivery as well as opportunities and challenges for IT-enabled change. The minitrack is open to papers on challenges and benefits from improved healthcare delivery over a variety of healthcare settings (e.g., hospitals, ambulatory clinics, or in the home). It is also open to multiple research methods including qualitative, quantitative, and design science approaches. We are especially interested in interdisciplinary approaches, combining for example

IT, process design, as well as managerial and policy initiatives. Because the national context affects health care delivery choices, we are also interested in multi-national studies.

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Carmen Lewis, Troy University, cclewis@troy.edu

Yajiong (Lucky) Xue, East Carolina University, xuey@ecu.edu

Please consider submitting your research to one of the SIGHealth mini-tracks. The deadline for paper submissions is March 1, 2017 at 1:00PM EST. Please note the time cut-off as it is different from past deadlines. More information and submission details are available on the AMCIS 2017 Webpage via http://amcis2017.aisnet.org/submissions/call-for-papers/.

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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.

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Networking Opportunities…

Spread the word: SIGHealth is social!

2015 Renewal of AIS Membership and Re-designating SIGHealth Interest

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? Check your membership via the AIS Website.

January 2017… 50th Hawaiian International Conference on System Sciences (HICSS)

Dates: January 4 – 7, 2017

Location: Waikoloa, Hawaii

Registration: On-site registration after December 2016.

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…

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