



Editor's Notes...

Year end greetings!

As we move into a new year, I would like to extend a sincere thank you to our President Surendra Sarnikar and our Secretary Renée Pratt for all of their dedicated service to the SIGHealth community over the past year. Many, many thanks Surendra and Renée for your contributions and our SIG's success over the past two years, which includes being named an AIS Outstanding SIG again in 2018 for accomplishments in 2017.

We have a full line-up of SIGHealth opportunities highlighted in our 2018 newsletter. Our first article is an update from our past-president Surendra Sanikar on SIGHealth activities and election results. The other feature articles in this issue recap the winners for 2018 Best Paper Awards Published in 2017 as well as the SIGHealth research submissions from AMCIS 2018 in New Orleans and the SIGHealth minitracks scheduled for the upcoming AMCIS 2019 in Cancun, Mexico.

On a side note, our upcoming AMICS 2019 provides an opportunity to highlight your research and enjoy the best of Yucatan cuisine and entertainment. I encourage you to visit the AMCIS 2019 conference Website. AMCIS in Cancun promises to be an outstanding conference and the SIGHealth Board encourages all of our community to participate and attend as your funding and 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.

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Outstanding SIG and Election Results...

Surendra Sarnikar

We had another productive year with SIGHealth receiving the AIS Outstanding Chapter Award for the fourth year in a row. Outstanding Communities are recognized each year online, through AIS electronic publications, and at AIS conferences. The following criteria is used to identify the Outstanding Communities for 2017:

Required Criteria The SIG/Chapter/College has ...		
1. Hosted one activity, meeting, or event that is open to all AIS members.		
2. Conducted one Annual General Meeting (AGM).		
3. Conducted at least one Executive Board meeting.		
4. Submitted the Annual Report on or before February 15, 2018.		
5. All officer positions listed in the group bylaws are filled on December 31 of this reporting period. <i>(Please see your bylaws for the list of officer positions. They often include the roles of: President, President-Elect, Secretary, and Treasurer)</i>		
6. Submitted year-end financial statement. <i>(CHAPTERS ONLY)</i> <i>(Because AIS collects dues and manages money for SIGs and Colleges, it is not necessary for those groups to submit a year-end financial statement.)</i>		
Additional Criteria (In addition to the required elements listed above, a total of 100 points must be earned from the following five categories)	Value	Category Maximum
A. Organized and ran a track or workshop at an AIS or AIS affiliated conference or hosted a webinar, seminar, or other conference. Do <u>not</u> list the Annual General Meeting here.	15 points per event	45 points
B. Published one or more academic journal issues or special research topic issues. <i>(Publication date should be in the calendar year of the Annual Report.)</i>	15 points per publication	45 points
C. Developed Community award and recognition programs presented annually to members. Suggested types of awards are best track papers, volunteer of the year, and best reviewer.	5 points per award or recognition granted	25 points
D. Communicated with all members and other interested individuals to promote the activities of the Community through broadcast push messages. Communications can occur in any medium determined to be effective for your group; examples include newsletters, listserv announcements, or social media posts. They can all be in one medium.	5 points per promotional communication	25 points
E. Updated the Community website within the past calendar year.	10 points	10 points
F. Revitalized the Community with a change in Executive Leadership <i>(Officer terms may be no more than three years. AIS bylaws, Section 8.4; AIS Community bylaw template Article V, Section 1)</i> Points will be awarded for each appropriate officer turnover listed in the required information section.	5 points for each position that has a new officer in place after three years	20 points

Thank you all for being a part of the SIGHealth community and best wishes for a fantastic 2019. It is my pleasure to introduce the new slate of SIGHealth officers:

Immediate Past-President	Surendra Sarnikar	sarnikar@acm.org
President	Monica Chiarini Tremblay	monica.tremblay@mason.wm.edu
President-Elect	Jim Ryan	jryan@aum.edu
Secretary	Renée Pratt	rpratt@isenberg.umass.edu
Treasurer	Ann Fruhling	afruhling@unomaha.edu

Best Paper Awards 2018...

Surendra Sarnikar



SIG-Health again sponsored a Best Published Paper Award at AMCIS 2017. 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 2016, where recipients are current SIGHealth members. The judging criteria on innovation, impact, implementation, and appeal was established in 2014.

Review Criteria:

Innovation:

Are new strategies and/or approaches described?

Do they improve current practices?

Do they enhance knowledge?

Impact:

Does the paper address a real problem?

Is the problem solved or diminished?

Is a significant part of an organization, population or the world impacted?

Implementation:

Is the innovation operational?

What is the breadth of the implementation?

Is the approach/knowledge applicable to others?

Appeal and Readability:

Is there broad interest in the problem across industries and cultures?

Will the paper appeal to SIG-Health membership?

Is the paper brief, clear, and to the point?

The Best Paper Awards were presented during the SIGHealth annual business meeting at AMCIS 2018. Many thanks to the review committee who scored the 26 submissions this year from SIGHealth members. The review committee members were Gondy Leroy (chair), Jason Cohen, Pasi Karppinen, Jim Ryan, and Ben Schooley.

The 2018 senior research award recipients were:

Hock Hai Teo (Best Published Paper) – Yu Tong, Chuan-Hoo Tan, & Hock-Hai Teo, (2017). “Direct and Indirect Information System Use: A Multimethod Exploration of Social Power Antecedents in Healthcare,” *Information Systems Research*, 28(4), 690-710. <https://doi.org/10.1287/isre.2017.0708>

Tobias Mettler (Meritorious Mention) - Tobias Mettler, Michaela Sprenger, & Robert Winter2, (2017). “Service robots in hospitals: new perspectives on niche evolution and technology affordances,” *European Journal of Information Systems*, 26(5), 451-468. <https://doi.org/10.1057/s41303-017-0046-1>

Guy Paré (Meritorious Mention) - Kitsiou, S., Paré, G., Jaana, M. & Gerber, B. (2017). “Effectiveness of mHealth Interventions for Patients with Diabetes: An Overview of Systematic Reviews,” *PLOS/One*, 12(3), e0173160. <https://doi.org/10.1371/journal.pone.0173160>

The 2018 junior research award recipients were:

Pankush Kalgotra (Best Published Paper) - Pankush Kalgotra, Ramesh Sharda, & Julie Croff, (2017). “Examining health disparities by gender: A multimorbidity network analysis of electronic medical record,” *International Journal of Medical Informatics*, 108, 22-28. <https://doi.org/10.1016/j.ijmedinf.2017.09.014>.

Yang Gu (Meritorious Mention) - Gu Y, Leroy G, Kauchak D, (2017). “When synonyms are not enough: Optimal parenthetical insertion for text simplification,” *AMIA Annual Symposium Proceedings*, eCollection 2017, <https://www.ncbi.nlm.nih.gov/pubmed/29854147>.

Kirsi Halttu (Meritorious Mention) - Kirsi Halttu & Harri Oinas-Kukkonen (2017). “Persuading to Reflect: Role of Reflection and Insight in Persuasive Systems Design for Physical Health,” *Human-Computer Interaction*, 32(5-6), 381-412. <https://doi.org/10.1080/07370024.2017.1283227>



AMCIS 2018 SIGHealth Minitracks...

Rich Klein

We had eight paper sessions of 26 completed research presentations in the Healthcare Informatics & Health Information Technology Track (SIGHealth) for AMCIS in New Orleans. SIGHealth had 27 emergent research (ERF) presentations across multiple ERF and TREO (e.g., Technology, Research, Education, and Opinion) Talks, with three of the TREOs being exclusively healthcare. Overall, we had 54 paper presentations over eleven sessions. Many thanks to all the authors, minitrack chairs, session chairs, and paper reviewers for their time, efforts, and contributions.

AMCIS 2019 SIGHealth Minitracks...

Rich Klein



We hope you will make plans to attend AMCIS 2019 in Cancun, Mexico! Digital convergence is what enables individuals interact, communicate, collaborate and share information in many new and different ways. Yet, it has tended to focus on the ability to combine technical components and features such as voice, texts, video, pictures, broadcasts, presentation, streaming media, global connectivity and personalized services. Its new frontier—yet to be fully imagined—the capacity to blur socio-technical boundaries, such as those between the real and online world, producers and consumers, humans and machines, inter- and intra-firms, as well as between develop and emerging economies. This conference theme reflects the desire to strengthen and build consensus in existing research streams, while also taking on theoretical and methodological challenges while exploring emerging convergence opportunities. SIGHealth is sponsoring the Healthcare Informatics & Health Information Technology Track, composed of six mini-tracks. Below is a listing of the track and minitrack 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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Mini-Track 1: Medical Apps and 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 monitoring and managing effectively and efficiently exponentially increasing chronic diseases 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. Moreover, they facilitate the attainment of a healthcare value proposition of superior value, access and quality. New devices (wearables) and ICT are strong drivers for this trend and also enable patient empowerment and support better wellness management. With this comes a nascent, evolving and unique environment for healthcare researchers to explore, develop and test theories and solutions. Although the potential for the far reaching impact of mHealth is indisputable, realizing the vision is far from easy primarily due to the complex nature of healthcare operations. The objective of this mini-track is to identify appropriate, efficient, high quality, high value 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 that: (1) assess the infrastructure issues towards supporting mHealth, (2) propose and/or evaluate the design, development, and implementation of successful mHealth applications, (3) assess the impact of mHealth applications on patients, doctors, healthcare organization, and society in general, (4) develop theories to better understand the phenomenon of mHealth and eHealth, (5) evaluate key barriers and facilitators such as policy, compliance to standards, privacy and security requirements and/or (6) present new and novel opportunities to incorporate mobile solutions to enable better health and/or wellness management.

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Mini-Track 2: 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 than 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 live longer in self-contained circumstances than 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. We invite papers that address the grand challenges ahead by providing insights (IS Research) and suggesting innovative solutions (Design Science



Research). Our guiding question is: How can digital resources, including electronic health (eHealth) and mobile health (mHealth) be used to provide health related services for the aging generation?

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Mini-Track 3: Pharmaceutical Enterprise Systems and Supply Chain Management Systems

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.

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Mini-Track 4: Digital Transformation in Healthcare

We are at the beginning of a fourth industrial revolution, enabled by emergence of new and improved digital capabilities. Many believe that digital transformation, defined as digitally-enabled, continuous, strategic undertaking to significantly improve business processes and customer engagement, is critical to advance the state of healthcare in order to improve patient outcomes. Digital transformation in healthcare emphasizes strategic undertakings enabled by emerging technologies to facilitate the experience of patients during their interactions with various entities in the healthcare system. This minitrack seeks to understand key strategic drivers of digital transformation for some of the entities in the healthcare value chain, including providers, payers, and many others. The aim is to develop a comprehensive view of how patient outcomes and experience can be improved through digital transformation. This minitrack will consider empirical research, reviews of current literature, theory, methodology, and evaluations of technology, and position papers.

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Mini-Track 5: 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 (e.g., IT, process design, as well as managerial and/or policy initiatives). Because the national context affects health care delivery



choices, we are also interested in multi-national studies.

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Mini-Track 6: Data Driven Healthcare

The rapid development of digital technologies makes information and communication technology important aspects of modern Healthcare. The increase in mobile apps, both designed, developed and delivered by healthcare as well as brought in by patients. The data is often produced by patients (PGHD), and used by healthcare. The minitrack is interested in papers that take on the design and development of digital artifacts (such as m-health apps) and use of such artifacts (and larger systems) that increase the data flow into healthcare and shed light on data work that is required to make sense of such data. The interest is in the intersection between healthcare and patients where the patients are increasingly doing work, data work – even though their work is unpaid. We encourage both qualitative and quantitative papers and empirical and theoretical papers that inspire a dialog with the growing literature on data work, datification and data driven healthcare.

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Mini-Track 7: Data Driven Healthcare

Information Asymmetry is one of the major factors that makes the healthcare industry unique. Patients are the ultimate users of health services; however, they have relatively little influence on their own health service choices. Further, when consumers receive services, it is difficult to evaluate what they have received. Virtual communities play a vital role in reducing information asymmetry. For example, patient-to-patient portals provide experiential health information. Blogs relating to health provide useful information to patients. Several virtual communities provide information, support and other opportunities for patients, providers, equipment manufacturers, policy workers, to express themselves and receive support. This mini-track provides a forum for all researchers who work in the healthcare virtual communities space. We hope that you would find this track attractive and would support it. We think that our proposal will be of interest to a much wider audience and attract a much broader interest group thus spurring research into new areas that relate to security. This mini-track solicits empirical, theoretical, conceptual, and case-based research studies that seek to explore any issue that relates to Virtual communities in the Healthcare area.

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Please consider submitting your research to one of the SIGHealth mini-tracks. The deadline for paper submissions is March 1, 2019 at 10:00AM PST. Please note the time cut-off as it is different from past deadlines. More information and submission details are available on the AMCIS 2019 Webpage via:

<https://amcis2019.aisconferences.org/submissions/call-for-papers/>



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 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 2019... 51st Hawaiian International Conference on System Sciences (HICSS)

Dates: January 8 – 11, 2019
Location: Wailea, Maui, Hawaii, USA
Registration: Registration onsite after December 2018.



[More Details...](#)

June 2019... 27th European Conference on Informations Systems (ECIS)

Dates: June 8 – 14, 2019
Location: Stockholm, Sweden
Registration: Early registration begins in March 2019.



[More Details...](#)

August 2019... 25th Americas Conference on Informations Systems (AMCIS)

Dates: August 15 – 18, 2019
Location: Cancun, Mexico
Submissions: By March 1, 2019 10:00AM PST
Registration: Early registration begins in May 2019.



[More Details...](#)



December 2019... 24th International Conference on Informations Systems (ICIS)

Dates: December 15 – 18, 2019
Location: Munich, Germany
Submissions: May 1, 2019
Registration: Early registration begins in July 2019.



[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...](#)

