



## Editor's Notes...

Year end greetings!

As we close out 2019, I would like to extend a sincere thank you to our out-going SIGHealth secretary, Renée Pratt for her dedicated service to our community over the past years. Many, many thanks to Renée for documenting the contributions our SIG has made to the community and our success over the past year, which includes being named an AIS Outstanding SIG in 2019 for accomplishments in 2018. Also, congratulations to our new in-coming secretary, Haijing Hao.

We have a full line-up of SIGHealth opportunities highlighted in our 2019 newsletter. Our first article is an update on the AIS outstanding SIG rating criteria and a current listing of SIGHealth officer information. The other feature articles in this issue recap the winners for 2019 Best Paper Awards Published in 2018 as well as the SIGHealth research submissions from AMCIS 2019 in Cancun. We wrap-up with the SIGHealth minitracks scheduled for the upcoming AMCIS 2020 in Salt Lake City, Utah.

On a side note, our upcoming AMICS 2020 provides an opportunity to highlight your research and enjoy the best of Salt Lake City cuisine and vistas. I encourage you to visit the AMCIS 2020 conference Website. AMCIS in Salt Lake City promises to be an outstanding conference and the SIGHealth Board encourages all 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](mailto:sighealthnewsletter@gmail.com)) to expedite your submissions. Content received 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](mailto:sighealthnewsletter@gmail.com)





Feature Articles...

Outstanding SIG and Election Results...

Monica Chiarini Tremblay

We had another productive year with SIGHealth receiving the AIS Outstanding Chapter Award for the fifth 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 2019:

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 Committee Meeting.
	4. Submitted the Annual Report on or before March 1, 2020
	5. All officer positions listed in the group bylaws are filled on December 31, 2019. (Please see community bylaws for the list of officer positions. They often include the roles of: President, President-Elect, Secretary, and Treasurer)
	6. Submitted year-end financial statement (CHAPTERS ONLY - AIS collects dues and manages money for SIGs and Colleges, it is not necessary for those groups to submit a year-end financial statement)

Additional Criteria	Value	Category Maximum
To earn recognition as an Outstanding Community, communities must meet all required criteria above and earn 100 points from the categories below.		
A. Organized and ran a track or workshop at an AIS or AIS affiliated conference or hosted a webinar, seminar, or other conference. Do not 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. (Publication date should be in the calendar year of the Annual Report)	15 points per event	45 points
C. Developed Community award and recognition programs present 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. Developed scholarships or other programs to support member participation in AIS or AIS affiliated conferences.	5 points per scholarship	15 points
E. 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, social media posts, or listserv announcements. They can all be in one medium.	5 points per communication	25 points
F. Implemented recruitment campaign to encourage membership in your group.	25 points	25 points
G. Updated the Community website within the past calendar year	10 points	10 points
H. Revitalized the Community with a change in Executive Leadership (Officer terms may be no more than three years. AIS bylaws, Section 8:4, AIS Community bylaw template Article V, Section 1) Points will be awarded for each appropriate officer turnover list in the required information section	5 points for each position that has a new officer in place after three years	20 points
I. Sent representative to Community Leaders Breakfast at AMCIS and/or ICIS	5 points per events	10 points
J. Represented at AIS Member Connect event at AMCIS and/or ICIS	5 points	10 points



Thank you all for being a part of the SIGHealth community and best wishes for a fantastic 2020. The following is the contact information for the SIGHealth elected officers:

<b>Immediate Past-President</b>	Surendra Sarnikar	<i>sarnikar@acm.org</i>
<b>President</b>	Monica Chiarini Tremblay	<i>monica.tremblay@mason.wm.edu</i>
<b>President-Elect</b>	Jim Ryan	<i>jryan@wpi.edu</i>
<b>Secretary</b>	Haijing Hao	<i>haohaijing@gmail.com</i>
<b>Treasurer</b>	Ann Fruhling	<i>afruhling@unomaha.edu</i>

### Best Paper Awards 2019...

Jim Ryan

SIG-Health again sponsored a Best Published Paper Award at AMCIS 2019. 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 2018, where recipients are current SIGHealth members. The judging criteria on innovation, impact, implementation, and appeal was established in 2014.

#### Review Criteria:

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

The Best Paper Awards were presented during the SIGHealth annual business meeting at AMCIS 2019. Many thanks to the review committee who scored the 26 submissions this year from SIGHealth members. The review committee members were Jim Ryan (chair), Mike Dohan, and Monica Tremblay.

#### ***The 2019 senior research award recipients were:***

**Best Published Paper** – Jeong-ha (Cath) Oh, Zhiqiang (Eric) Zheng, and Indranil R. Bardhan; “Sooner or Later? Health Information Technology, Length of Stay, and Readmission Risk,” *Production and Operations Management*, 2018, 27(11), 2038-2053.

**Meritorious Mention** - Gondy Leroy, Yang Gu, Sydney Pettygrove, Maureen Galindo, Ananyaa Arora, and Margaret Kurzius-Spencer; “Automated Extraction of Diagnostic Criteria From Electronic Health Records for Autism Spectrum Disorders: Development, Evaluation, and Application,” *Journal of Medical Internet Research*, 2018, 20(11), e10497.

#### ***The 2019 junior research award recipients were:***



**Best Published Paper** - Robert Rockmann, Tanja Salou, and Heiko Gewalt; “If You Are Happy and DON'T Know IT: Continuance? Analyzing Emotion Carry-Over Effects in Activity Tracking Continuance Decisions,” PACIS 2018 Proceedings, 238.

**Meritorious Mention** - Stavros Polykarpou, Michael Barrett, Eivor Oborn, Torsten Oliver Salge, David Antons, and Rajiv Kohli; “Justifying Health IT Investments: A Process Model of Framing Practices and Reputational value,” Information and Organization, 2018, 28, 153—169.

### AMCIS 2019 SIGHealth Minitracks...

Rich Klein

We had five paper sessions of 14 completed research presentations in the Healthcare Informatics & Health Information Technology Track (SIGHealth) for AMCIS in Cancun. SIGHealth had 22 emergent research (ERF) presentations across four ERF and TREO (e.g., Technology, Research, Education, and Opinion) Talks that were exclusively healthcare. Overall, we had 36 paper presentations over 9 sessions. Many thanks to all the authors, minitrack chairs, session chairs, and paper reviewers for their time, efforts, and contributions.

### AMCIS 2020 SIGHealth Minitracks...

Rich Klein



We hope you will make plans to attend AMCIS 2020 in Salt Lake City, Utah! A vision for the future is the AMCIS 2020 conference theme and it reflects the desire to strengthen and build existing research streams, while also taking on theoretical and methodological challenges and 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.

*Richard Klein, Florida International University, rklein@fiu.edu*

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

### **Mini-Track 1: Digital 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. Digital 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 digital 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 digital resources are accepted and used by seniors and what benefit they provide is in scope of the minitrack.

*Heiko Gewald, heiko.gewald@hs-neu-ulm.de*

*Doug Vogel, vogel.doug@gmail.com*

*Andreas Eckhardt andreas.eckhardt@ggs.de*

### **Mini-Track 2: 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 the 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. 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, (2) propose and/or evaluate the design, development, and implementation, (3) assess the impact, (4) develop theories (5) evaluate key barriers and facilitators and/or (6) present new and novel opportunities.

*Nilmini Wickramasinghe, nilmini.work@gmail.com*

*Doug Vogel, vogel.doug@gmail.com*

*Ton Spil, a.a.m.spil@utwente.nl*



### **Mini-Track 3: 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. The aim is to develop a comprehensive view of how patient outcomes and experience can be improved through digitization of healthcare processes. Potential topics include those related to experiences of patients, providers, payers, and other entities in the healthcare value chain; strategic, managerial, and governance-related issues associated with digital transformation; and others. This minitrack will consider submissions of empirical research, theoretical and methodological approaches, literature reviews, technology evaluations, and position papers.

*Michael Dohan, msdohan@lakeheadu.ca*

*Joseph Tan, tanjosep@mcmaster.ca*

*Kaushik Ghosh, kghosh@lamar.edu*

### **Mini-Track 4: Virtual Communities for Healthcare**

Virtual communities provide information, and support for patients. Other entities who benefit from conversations in this forum include providers, equipment manufacturers, and policy workers. This mini-track provides a forum for all researchers who work in the healthcare virtual communities space. 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. Suggested topics include, but are not limited to, the following:

- Virtual communities providing support for patients with conditions like sexually transmitted diseases, social anxiety disorders, Parkinson's disease, ALS, Diabetes, etc.
- Design Issues relating to online portals for supporting healthcare patient-to-patient portals
- Design of virtual communities
- Mobile technologies and HCI
- User-friendly interfaces for special needs and at-risk populations
- Data scrapping issues from online communities
- Utilizing health-related user-generated content such as reviews, etc. for decision making
- Predictive analytics using information found in online health social networks
- Sentiment Analysis of information found in virtual healthcare communities
- Measuring the quality of information in virtual healthcare communities
- Security and Privacy issues with virtual healthcare communities
- Support issues
- Text mining healthcare data found in virtual communities
- Storage issues in healthcare data
- Recency issues in virtual healthcare communities
- Readability and health literacy issues in virtual healthcare communities
- The economic impact of virtual healthcare communities
- Individual behavior and group dynamics in virtual healthcare communities



- Health and Social impact of virtual communities
- Trust in virtual healthcare communities
- Wiki's and blogs

*Srikanth Venkatesan svenkatesan@cpp.edu*

*Wencui Han wenhan@illinois.edu*

*Raj Sharman rsharman@buffalo.edu*

*Joana Monteiro joanaalu@buffalo.edu*

### **Mini-Track 5: Adoption and Impact of Health Information Technology**

In this mini-track, we focus on the adoption and impact of health information technology (HIT). Specifically, we examine the hurdles, facilitators, stakeholders, and models for HIT adoption, and investigate the impact of HIT on patients, doctors, healthcare organization, and society in general. We invites research at any levels, including individual, unit, organization, community, or society, and using various research methodologies, such as empirical, modelling, case study, conceptual, intervention, or simulation. Issues of interest include but are not limited to the following:

- factors affecting HIT adoption in the health care context
- stakeholders and their interactions in affecting HIT adoption
- new models of HIT adoption
- post-adoption behavior and meaningful use of HIT
- how does HIT affect patient care?
- how does HIT affect hospital operational efficiency and effectiveness?
- how do online communities facilitate high-quality and affordable health care?

*Gang Peng gpeng@fullerton.edu*

*David Zhang daz215@lehigh.edu*

### **Mini-Track 6: Data Driven Healthcare**

The rapid development of digital technologies that collect data makes the way data is gathered and handled important aspects of modern healthcare. The data is often produced by patients (patient-generated health data: PGHD), and used in collaboration with healthcare. This minitrack is interested in papers discussing the design and development of digital artifacts (and m-health apps) and use of such artifacts (and larger systems or platforms) that increase or change the data flow in healthcare. This includes papers that shed light on the data work required to make sense of the increased data flow in healthcare. Data work can include everything from making sense of data, to data collaboration, translation work with data and increased flow of data into healthcare settings as well as patients lives. The interest is not merely in big data but also in small data and the use of personal data for increased wellness and health.

*Anna Sigridur Islind, anna-sigridur.islind@hv.se*

*Helena Vallo Hult helena.vallo-hult@hv.se*

*Livia Norström livia.norstrom@hv.se*

*Sara Willermark sara.willermark@hv.se*



Please consider submitting your research to one of the SIGHealth mini-tracks. The deadline for paper submissions is February 28, 2020 at 5:00PM MST. Please note the time cut-off as it is different from past deadlines. More information and submission details are available on the AMCIS 2020 Webpage via:

<https://amcis2020.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!



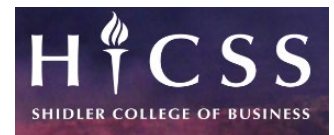
**2019 Renewal of AIS Membership and Re-designating SIGHealth Interest**



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 2020... 53rd Hawaiian International Conference on System Sciences (HICSS)**

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



[More Details...](#)

**June 2020... 23rd European Conference on Informations Systems (ECIS)**

Dates: June 15 – 17, 2020  
 Location: Marrakech, Morocco  
 Submissions: November 29, 2019  
 Registration: Early registration begins March 15, 2020.



[More Details...](#)





### June 2020... 23rd Pacific-Asian Conference on Informations Systems (PACIS)

Dates: June 20 – 24, 2020  
Location: Dubai, UAE  
Submissions: By March 2, 2020 – 11PM Beijing Time (GMT+8)  
Registration: Early registration begins in March 2020.



[More Details...](#)

### August 2020... 26<sup>th</sup> Americas Conference on Informations Systems (AMCIS)

Dates: August 12 – 16, 2020  
Location: Salt Lake City, Utah, USA  
Submissions: By February 28, 2020 5:00PM MST  
Registration: Early registration begins in May 2020.



[More Details...](#)

### December 2020... 41<sup>st</sup> International Conference on Informations Systems (ICIS)

Dates: December 15 – 18, 2020  
Location: Hyderabad, India  
Submissions: May 1, 2020  
Registration: Early registration begins in July 2020.



[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...](#)

