



IMIA Organizational and Social Issues WG15 2021 Report

Christian Nøhr, Chair (2019-2022)

University of Southern Denmark
Odense, Denmark

Katie Zhu, Vice Chair (2019-2022)

Executive Director, Center for Biomedical Data Science, Yale School of Medicine
New Haven, CT, USA

Website: <https://imia-medinfo.org/wp/organizational-and-social-issues/>

For the 2021 report please provide details on the following:

1. **Brief Background- current mandate, historical background, etc.**
 - **Mission:** The mission of the Organizational and Social Issues working group is to promote Organizational and Social Issues and the role they play in medical informatics.
 - **Vision:** Given the increased implementation of health information technology and the focus on approaches such as Big Data, Patient Participatory Medicine and collaborative care delivery, it is more important than ever to ensure that organizational and social contexts are considered and studied as part of the design and evaluation of informatics based solution
 - **Objective:** To develop and promote scholarly approaches for OSI in medical informatics research and care delivery
2. **Achievements - IMIA WG Events and projects conducted, and publications completed**

Linda Peute and Romaric Marcilly (chairs of the IMIA Human Factors Engineering for Healthcare Informatics working group) were co-chairs along with Christian Nohr, Craig Kuziemyk (former WG chair), Katie Zhu, and Peter Elkin of Context Sensitive Health Informatics 2021, a IMIA co-sponsored conference being held virtually on November 15 and 16, 2021.

Context Sensitive Health Informatics is about health information technologies and their environments. Environments may be people in different roles such as users, designers, and evaluators, but also non-human constructs such as organizations, work practices, guidelines and protocols, buildings and markets.

The conference theme: “The Role of Informatics in Global Pandemics”. The COVID-19 pandemic has disrupted many global industries, none more so than healthcare. COVID-19 has necessitated the need for health informatics innovations that can bridge time and space in order to provide timely care. It has also emphasized the need for a system level informatics infrastructure that supports the healthcare management of populations at a macro level while also providing the necessary support for front line care delivery at a micro level. While COVID-19 has necessitated change at a fast pace, it does not remove the need for an evidence base to support the health technologies that are implemented. This issue raises fundamental questions such as how do we deliver the informatics tools that are needed while also ensuring the quality and safety of such tools? <https://cshi2021.sciencesconf.org/>

The CSHI conference submissions were organized in the following topic areas:

- contextual awareness and ergonomics,
- human and socio-technical factors,
- informatics, data management,
- public health,
- patient safety,
- quality management and regulation,
- innovative technology for patients and professionals.

Invited keynote: Sustainable eHealth – Implications of the future Marieke Sijm, Assistant Professor and Master Black Belt Lean in Healthcare at University of Amsterdam

More than 100 people registered for the conference. Seven papers won best papers, best COVID studies, or best student papers.

Proceedings from the conference are published in the IOS Press series: Health Informatics and Technology. <https://ebooks.iospress.nl/volume/context-sensitive-health-informatics-the-role-of-informatics-in-global-pandemics>

Craig Kuziemsky, Christian Nøhr, Romaric Marcilly, Linda Dusseljee-Peute, Xinxin Zhu, Peter L. Elkin contributed to the paper: *The Importance of Contextual Understanding in Solving the Last Mile Problem*. PMID: 34755681. Stud Health Technol Inform. 2021 Nov 8;286:3-8. DOI: [10.3233/SHTI210625](https://ebooks.iospress.nl/volumearticle/58101)
<https://ebooks.iospress.nl/volumearticle/58101>

3. Describe WG/SIG Participation - Engagement and participation in IMIA, IMIA Region or member health informatics events and activities in the past year

WG meetings focused on planning the Virtual 2021 Context Sensitive Health Informatics conference, which is traditionally a pre-MEDINFO conference except for this year due to the pandemic. This conference was organized together with the IMIA WG on Human Factors Engineering for Healthcare Informatics.

Our WG members met virtually throughout the year to discuss steps towards the Context Sensitive Health Informatics conference, which turned out to be a well-organized, well-attended, and well-received conference. There was a waitlist for additional registrations, and many attendees expressed their satisfaction on this successful conference. Proceedings from the conference were published on time in the IOS Press series.

WG members also attended the 6th plenary session of the International Academy of Health Science Informatics on November 18, 2021, where topics on AI in healthcare were discussed in depth.

4. Provide details of the WG/SIG's Outreach - Recruitment and engagement of new members and target communities, publicity, and representation at major events and/or on social media.

The WG does not keep a member book but reach out to members at other main international informatics professional organizations such as AMIA and MIE.

Craig E. Kuziemyk and Christian Nohr collaborated with José F. Florez-Arango and Vimla L. Patel on a chapter "**E-enabled Patient-Provider Communication in Context**" after the successful panel at the '20 AMIA symposium on "New Care Delivery Models for Critical Responses: Case Studies of E-enabled Patient-Provider Communication in Context". The chapter is accepted by the soon-to-be-published Springer book on Personal Health Informatics, edited by Pei-Yun Sabrina Hsueh, Thomas Wetter, and Katie Zhu

The same book also includes a chapter from Luis Fernandez-Luque, VP of IMIA WGs, and colleagues on "**The role of patient-generated data in personalized oncology care and research: opportunities and challenges for a real-world implementation**".

Bonnie Kaplan, one of the best COVID paper winners of the 2021 CSHI Conference also contributed to an accepted chapter "**Ethical, Legal, Social Issues pertaining to how Virtual and Digital Representations for Patients?**" in Springer book on Personal Health Informatics, edited by Pei-Yun Sabrina Hsueh, Thomas Wetter, and Katie Zhu

A paper vision of the Elsevier book on Digital health: Mobile and Wearable Devices for Participatory Health Applications was released in the beginning of 2021. The book was co-edited by Shabbir Syed-Abul, Luis Fernandez-Luque, and Katie Zhu. Many informatic professionals contributed to the book either as chapter authors or as reviewers.

<https://www.sciencedirect.com/book/9780128200773/digital-health>

4.a Current number of members:

4.b. List of WG/SIG members: