TRACK 11: Disaster Public Health & Healthcare Informatics

21st International Conference on INFORMATION SYSTEMS FOR CRISIS RESPONSE AND MANAGEMENT

"Theme: Embracing the Crisis Management Lifecycle"

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University of Münster and State Fire Service Institute North Rhine-Westphalia

https://iscram2024.ercis.org/

INTRODUCTION TO THE TRACK

The COVID-19 pandemic placed a renewed focus on informatics-based approaches for healthcare systems and public health systems responding to crises. The domain of disaster healthcare informatics is unique as it involves multiple medical subdisciplines ranging from global/emergency medicine to primary care. Public health infrastructure, ranging from community engagement to laboratory services also play a pivotal role in responding to major health crises. Health systems must interface effectively with joint emergency operations centers often at multiple levels of government. These systems rely heavily on physician, nurse, infection preventionists, and EMT practitioners and address both population level and individual patient level data. Given these factors, data fusion/integration, data security and privacy, and the legal and ethical implications of information systems designed to support healthcare and public health systems in crisis are of particular importance. Areas of significant innovation in disaster health informatics are occurring in part because of the complexity of the recent pandemic, but also more broadly in the field. Areas of particular interest for the track include computational epidemiology, hot-spotting, community situated case management, contact tracing, automated / autonomous /

robotic clinical systems, understanding complex systemic risk in healthcare systems, and healthcare associated infections (particularly in long term care settings), and disaster mortuary services.

Keywords: Computational epidemiology, hotspotting, disaster e-health, case management, clinical systems, disaster mortuary

TRACK TOPICS

Possible topics of interest for this track include the following: pics of interest for this track include the following:

- Pandemic data management, analysis, fusion and visualization
- Computational epidemiology
- Digital contact tracing strategies
- Autonomous/robotic clinical systems
- Virtual / eVisits in crisis healthcare
- Healthcare worker's experiences with technology supported work
- Healthcare/public health data fusion in crisis events
- Public health laboratories
- Disaster e-Health / e-Mental Health
- Specialized support for infants, children, young adults
- Maternal health in the context of disaster
- Congregate facilities, long term care and support for geriatrics
- Emergency Responder health
- Health issues for vulnerable communities
- Sentinel events and superspreaders
- Hotspot detection
- Military health systems
- eTriage systems
- Health related mapping and geographical information
- Disaster mortuary
- Healthcare transformation through crisis learning
- Algorithmic bias in disaster public health strategies
- Disaster health data privacy & governance
- Systemic risks
- Complex & cross border challenges in health informatics

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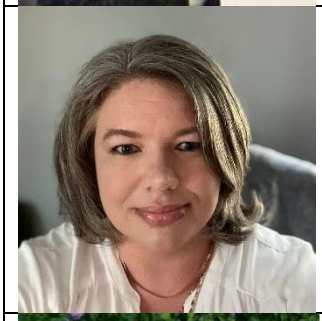	*Abigael Collier, DrPH student* *ajcollier@mcw.edu* *Medical College of Wisconsin*
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