ISCRAM 2018
Rochester Institute of Technology
Rochester, NY, USA

TRACK: Cybersecurity Issues and Innovations for Crisis Response

15th International Conference on INFORMATION SYSTEMS FOR CRISIS RESPONSE AND MANAGEMENT

"Visualizing Crisis"

Workshops and Doctoral Symposium May 20th, 2018

Conference May 21nd-23th, 2018

Rochester New York - USA
Rochester Institute of Technology (RIT)
https://iscram2018.rit.edu/

INTRODUCTION TO THE TRACK

This track explores the various ways in which cyber-enabled systems and cybersecurity issues are augmenting the way we respond to crises. Recent technological changes have affected the way we fund, communicate, plan, and execute crisis response. The vulnerability of these technologies increases in proportion to their connectivity, and to the connectedness of the people that rely upon them. We are interested current practices, case studies, and new research and development effort in five key areas: resilience for critical infrastructure, tactical cybersecurity practices, visualizations for cybersecurity data in crisis response, emerging
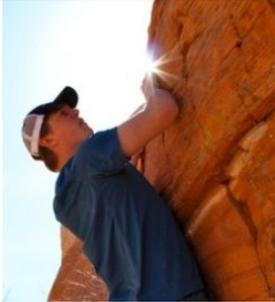
cybersecurity threats affecting crisis response, and emerging cyber-enabled response technologies. We invite researchers, practitioners, and policy makers to submit papers that discuss theoretical and practical application of technologies and ideas in these areas.

TRACK TOPICS

- Critical infrastructure resilience
    - State-sponsored attacks and responses
    - Local, national, and international resilience initiatives
    - Risks to Smart Cities and IOT
    - Cyberepidemiology
    - Risk mitigation and planning
- Tactical Security for Humanitarian/Crisis Response
    - Data protection guidance and standards for responders and beneficiaries
    - Authentication systems
    - Encrypted communications
    - Applications of blockchain
        - Property rights before/during/after events
        - Medical treatment and field care
        - Cryptocurrency for transferring resources during crisis events
- Visualizing Cybersecurity During Humanitarian/Crisis Response
    - Decision support tools
    - Capability and capacity monitoring
    - Vulnerability identification
    - Design frameworks
    - Usability and utility
- Emerging Cybersecurity Threats to Humanitarian/Crisis Response
    - Malware, economics, and risk factors
    - Crimes, hacktivism, and insider threats
    - Information veracity and trust
- Emerging Cyber-Enabled Response Technologies
    - Unmanned systems
    - Command and control
    - Communications
    - Resource management
    - Assessment technologies

TRACK CHAIR AND CO-CHAIRS

Tim Clark (corresponding chair) has co-chaired the European Union Symposium sessions at the 2015 and 2017 ISCRAM conferences, along with Vita Lanfranchi. He is an active researcher in the cybersecurity domain, and supports several ongoing projects with DARPA, ONR, and other US government entities. Mr Clark is a Certified Information Systems Security Professional (CISSP). **Vita Lanfranchi** has chaired several tracks, tutorials, and symposia at past ISCRAM events focused on social media analytics and computing. **Ryan Mullins** leads several cybersecurity research projects with various government agencies, and volunteered at the 2014 ISCRAM event at Penn State.

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