

The ICTO2020 Paper Development Workshop on “Emerging Technologies in Emergency Situations” for The International Journal of Operations & Production Management, 16th October 2020 online.

The main objective of this paper development workshop is to engage with authors intending to submit a paper to the “Emerging Technologies in Emergency Situations” Special Issue of The International Journal of Operations & Production Management.

Authors are invited to submit an **extended abstract (1,500 - 3,000 words)** using the ICTO 2020 (completed research) paper template (<https://icto2020.webs.com/icto2020-paper-submission>).

This extended abstract should highlight:

1. **The context of the study.** Potential Contexts of Study are:
 - Natural Disasters (Hurricanes, Droughts, Tsunami, Earthquakes, Mass Migration)
 - Man-Made Disasters (war, terrorism, political unrest)
 - Disease Outbreaks and Pandemics (COVID 19, Ebola, SARS)
 - Deployed Operations – The application of medical equipment in emergency
 - settings including humanitarian and war scenarios
2. **Potential Technologies.**
 - **Artificial Intelligence (AI):** What organisational and supply chain capabilities are required to effectively utilize Artificial Intelligence in emergency situations? What coordination mechanisms are required to utilize AI in a post-disaster or conflict scenario? What capabilities and skills are needed by managers and field operatives utilizing this technology? How can Artificial Intelligence contribute to O&SCM performance improvement and value creation in emergency situations?
 - **Blockchain:** What is the role of blockchain in enhancing visibility and transparency in humanitarian supply chains? Which are the relevant blockchain applications in humanitarian operations? How can blockchain be used by operations managers to combat disease outbreaks during crises?
 - **Big Data and Business Analytics:** How can business analytics support humanitarian operations pre-and post-natural and man-made disasters. How can business analytics minimize human suffering caused by disease outbreaks? How can business analytics help the O&SCM field minimize the disturbances produced by supply chain disruptions?
 - **Social Media.** Is social media a useful technology in responding to supply chain disruptions? How can social media support O&SCM scholars in addressing natural and man-made disasters? How are practitioners using social media to support healthcare operations in post-disaster situations?
 - **Internet of things:** How can the internet of things be used to minimize human suffering during humanitarian operations, disease outbreaks and mitigation? How can the internet of things be used to address issues of resources scarcity in emergency situations?

- **Drones** - How can drones use the smart cities infrastructure to respond to post-disaster situations? How can drones be used in humanitarian operations? What are the ethical issues related to the usage of the drones in disaster relief operations?
- **Medical diagnostics, medicines, and advanced therapies** – How can advances in diagnostics address the need for rapid and accurate evaluation and/or monitoring/tracking of patient health? How can emerging technologies alleviate pressure on the availability of pharmaceuticals and vaccines in emergency scenarios? How are leading-edge advanced therapies being pioneered to address a range of injuries and health conditions associated with humanitarian support?

3. Potential Methods

- Empirical research methods
- quantitative and qualitative methodologies including (but not limited to) case studies, surveys, design science, action research, mixed-methods
- The papers must provide new insights and theoretical contributions to the O&SCM field and the sub-discipline of humanitarian and disaster relief operations.
- We expect papers to utilize novel frameworks and theories to shed new light on the interplay between capabilities, coordination mechanisms, emergent technologies, and emergency situations.
- Must make a contribution to theory and practice
- Outside of the scope of this special issue: Modelling, secondary data only

4. Expected contributions.

During the workshop, you will have the opportunity to present your extended abstract and get feedback from the guest editor team as well as from your peers on how best to develop their article for submission to the special issue with IJOPM. We are looking forward to receiving your extended abstract.

Important Dates:

Opening of the submission system for the extended abstract:	1st August 2020
Notification of acceptance:	1st September 2020
Paper Development Workshop date:	16th October 2020

Link to the “Emerging Technologies in Emergency Situations” for The International Journal of Operations & Production Management:

<https://www.emeraldgrouppublishing.com/journal/ijopm/emerging-technologies-emergency-situations>

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