

# IEEE International Workshop on COVI-COM: Communication, IoT, and AI technologies to counter COVID-19

June 14–18, 2021  
Montreal, Canada



## General Co-chairs

- **Sudip Misra**  
(FNASc (India), FIETE (India), FIET (UK), FRSPH (UK), IIT Kharagpur, India)
- **Honggang Wang**  
(University of Massachusetts (UMass) Dartmouth, USA)
- **Shiwen Mao**  
(FIEEE, Auburn University, USA)
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## Important Dates

- ❖ Paper submission deadline:  
**January 20, 2021**
- ❖ Notification of acceptance:  
February 20, 2021
- ❖ Camera-ready papers:  
March 1, 2021

## Submission link

<https://edas.info/N27513>

## Webpage link

<https://sites.google.com/view/iccovicom2021/home>

## Scope

COVI-COM intends to leverage technological advancements and techniques in communications and AI to address disruptive, as well as regular challenges arising due to the global COVID-19 pandemic. The present-day world urgently needs resilient and sustainable solutions that can address the challenges arising out of the mandated need for periodic sanitization, intermittent quarantines and lockdowns, and social distancing. This workshop aims to mobilize the global communications and networking community for enabling long-term solutions for alleviating the social and economic constraints put in place to battle COVID-19 infections and arrest its spread. The impact of these solutions are projected to be long-term as with no definite cure or treatment in sight, human society is expected to adapt to the new social norms of intermittent lockdowns, quarantine, and social distancing. This workshop encourages the use of machine learning techniques, data mining, network science, communication technologies, and other similar technologies to counter the challenges arising out of the present COVID-19 pandemic.

## Topics

We seek original completed and unpublished work not currently under review by any other journal/magazine/conference. Topics of interest include, but are not limited to:

- Path planning for transport and navigation.
- Path planning for the people while avoiding hotspots.
- Business and visit scheduling.
- Big data analytics for COVID-19.
- Social distancing solutions for public places, industries, etc.
- Self-assessment techniques for COVID-19.
- Machine learning techniques for tracking and predicting COVID-19 transmission.
- Machine learning techniques for tracing contacts by COVID-19 patients.
- IoT solutions for patient tracking and monitoring.
- Computer vision for remote diagnosis of COVID-19.
- Track runaway patients from quarantine facilities.
- Computation offloading and resource management for timely results by resource-constrained devices.
- Machine learning techniques for profiling the spread of COVID-19 in hospitals, public places, etc.
- Hospital management using smart IoT solutions.
- New datasets and corresponding benchmarks for analyzing COVID-19.
- Security and privacy of healthcare data.
- Privacy-preserving tracking and surveillance

## Paper Submission

The workshop accepts only novel, previously unpublished papers. The page length limit for all initial submissions for review is SIX (6) printed pages (10-point font) and must be written in English. All final submissions of accepted papers must be written in English with a maximum paper length of six (6) printed pages (10-point font) including figures. No more than one (1) additional printed page (10-point font) may be included in final submissions and the extra page (the 7th page) will incur an over length page charge of USD100. For more information, please see IEEE ICC 2021 official website: <https://icc2021.ieee-icc.org/authors>