EpiMine: Workshop on Mining and Policy-Making for Epidemic Surveillance

held in conjunction with the

IEEE International Conference on Data Mining (ICDM 2021)
https://icdm2021.auckland.ac.nz/

Photo by Isaac Quesada

Epidemics like COVID-19 are triggered by factors such as changes in the ecology of the host population, genetic changes in an established virus, or a novel pathogen and result in a substantial burden for the world in terms of health risks and unnecessary deaths, economical risks, and global financial turmoil.

The need for effective prevention measures and mitigation strategies is highly urgent. It is essential to capture, understand and monitor the effects of mitigation strategies, as they are perceived and influenced by social media discussions and initiatives.

These measures mostly involve lockdowns at different granularities, durations, and frequencies. Moreover, social media plays a detrimental role during pandemics by monitoring and reflecting the opinion and sentiment of the population.

This workshop will focus on knowledge discovery, mining, and understanding of mitigation strategies and measures during a pandemic to facilitate effective and timely policy- and decision making.

Organisation & Contact

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Topics

- understanding the effects of lockdowns
- movement tracing under lockdowns
- understanding the role of social media during lockdowns
- moving from the physical to the virtual world during lockdowns
- mining and understanding epidemics
- reinforcement learning for prevention and mitigation of pandemics

Paper Submission

Papers must be submitted according to the guidelines appearing on the workshop website:
www.kmd.ovgu.de/epimine21

EpiMine authors are encouraged to submit their extended work to the Frontiers in Big Data research topic Big Data and Artificial Intelligence of Epidemic Surveillance.

Important Dates

Paper submission deadline: **Sep 3, 2021**
Acceptance notification: **Sep 24, 2021**
Camera-ready deadline: **Oct 1, 2021**
Workshop: **Dec 7, 2021**

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Stockholm University