



AI Technology and Computer Vision in the Face of Air Pollution and Urban Flood

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Deadline for manuscript
submissions:

30 June 2023



mdpi.com/si/145293

Message from the Guest Editors

Air pollution is a serious problem for the global population; millions of people die every year because of inflammatory diseases affecting the respiratory system and caused by harmful substances in the air.

Many countries exhibit air pollutant concentration levels higher than the threshold values suggested by legislation, leading to a negative impact on human health and food production.

Aside from air pollution, another issue that deserves the community's attention and action is urban flooding.

This environmental topic has become more prominent in recent years since it has become a source of significant economic and human loss.

This Special Issue aims to collect scientific research achievements related to the topics:

Chances and risks of AI

Environment monitoring with computer vision

Real-world modelling for calculation and forecasting

Smart disaster response

Water efficiency and drought control

Real-time air monitoring and management

Species protection based on big data

Smart cities and sustainable urban planning

Global vision of ocean protection

Smart sorting for wastes

Atmospheric modelling and numerical prediction

Global warming

Carbon capture and storage

Special Issue



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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

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