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

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Deadline for manuscript submissions:
closed (30 June 2023)

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

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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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