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Advancements in Thunderstorm Nowcasting and Atmospheric Electricity Monitoring by Remote Sensing

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Message from the Guest Editor

This Special Issue aims to reflect advances in thunderstorm nowcasting based on Remote Sensing. Thus the topic covers several sections of Remote Sensing: Atmospheric Remote Sensing, Environmental Remote Sensing, Earth Observation Data and Earth Observation for Emergency Management.

- Recent advances in lightning networks and radar and satellite systems and their benefit for thunderstorm nowcasting;
- Recent advances concerning atmospheric motion vectors;
- Recent advances in analysis and monitoring of thunderstorm life cycles;
- Recent advances in convective initiation;
- Recent advances concerning data fusion for thunderstorm nowcasting;
- Recent advances in the use of artificial intelligence for thunderstorm nowcasting;
- Recent advances in emergency management based on thunderstorm nowcasting.

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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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