Rain Sensors

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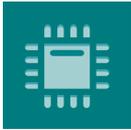
Message from the Guest Editors

Dear Colleagues,

Rain detection and monitoring is essential for many human activities, such as agriculture, water management, transportation, tourism, and leisure. Furthermore, the increasing occurrence of extreme precipitation events caused by climate changes calls for urgent improvements in operational measurement techniques of the rainfall amount and intensity.

In this context, this Special Issue aims to collect a number of papers about rain sensor technologies and applications, with the goal of providing the readership with an understanding of operating principles, state-of-the-art, applications, and future trends of such devices. This Special Issue thus welcomes contributions by researchers from both academia and industry on all aspects of rain sensor technologies and applications, spanning over different measuring principles, measurement scales, and the measured characteristics of the rainfall process (intensity, drop size distribution, fall velocity, etc.). Papers are also invited on the various aspects of sensor calibration, uncertainty assessment, standardization, and validation.

Prof. Filippo Giannetti
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Guest Editors

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Special Issue

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Keywords

rain sensors
weather stations
meteorology
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