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Proximal Soil Sensing

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Deadline for manuscript submissions:
closed (31 December 2018)

Message from the Guest Editors

The development of proximal soil sensing is essential for the dynamic characterisation of soil to help advance our current understanding of such processes and for monitoring them. Recent technological advances in miniaturised, low-power, sensors that are also wireless show considerable promise. Thus, for this special issue we welcome reviews and original research articles on the following topics:

1. New soil sensor technologies for sensing biological, physical, and chemical soil properties;
2. Development of integrated multi-sensor systems for monitoring soil condition and function (or soil health);
3. Subterranean wireless sensor systems used for monitoring biological, physical, and chemical soil properties;
4. Sensor data analytics, including signal processing, sampling, multivariate calibration, machine learning, Bayesian modelling, multi-sensor data fusion;
5. Novel applications of proximal soil sensing in environmental, agronomic, engineering, robotic, archaeologic, remote sensing and space applications;
6. Use of proximal soil sensing data in processed-based models at different spatial and temporal scales.

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Message from the Editor-in-Chief

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