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Novel Procedures and Methodologies for Surface and Underground Water Quality Analysis: Theory and Application

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Message from the Guest Editors

Water quality is a critical factor for sustaining human activities and ecological balance. Both surface and underground water resources are subject to significant influences from natural and anthropogenic activities, which affect the maximum allowable concentrations of various water quality parameters.

This Special Issue tends to collect papers dealing with surface and underground water quality chemical and physical parameter analysis using time series modeling, artificial intelligence and machine learning to assess the impact of meteorological parameters.

- Predictive modeling for future water quality levels;
- Assessment of the current water quality conditions;
- Integration of time series analysis techniques;
- Utilization of artificial intelligence in water quality assessment;
- Application of machine learning methods;
- Analysis of surface water quality parameters;
- Examination of underground water quality parameters;
- Consideration of anthropogenic impacts on water resources;
- Incorporation of meteorological factors in water quality assessment;
- Improving understanding of natural and human-induced effects on water quality.

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Special Issue