



Nature-Based Solutions as Sustainable Engineering for Improving Water Security

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Message from the Guest Editor

Dear colleagues:

Nature-based solutions (NbS) are “living solutions inspired by, continuously supported by and using nature, which are designed to address various challenges in a resource-efficient and adaptable manner and to provide simultaneous economic, social, and environmental benefits”. One societal challenge is water security: sufficient quality, quantity, and acceptable level of water-related risk to support human and ecosystem needs. NbS for water are relevant for both society and nature. The term NbS is often used as a transdisciplinary umbrella that encompasses existing concepts such as “ecological engineering” and “blue-green infrastructure” in engineering and existing concepts in other disciplines. Technology and engineering with and for nature remain a minor topic in academic discourse, despite their importance in sustainability transitions.

In this Special Issue, we gather analyses, frameworks, viewpoints, and experimental evidence in the use of NbS or techno-ecological NbS for improving water security. We hope that bringing this knowledge together will advance the scientific and policy discussion in this nascent field.





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