

Special Issue

The Role of Urban Trees in Ecology Protection

Message from the Guest Editors

Over 50% of the global population and 80% of economic activities are concentrated in urban areas, significantly altering energy exchange patterns within urban ecosystems. This shift has triggered numerous climate and ecological challenges, such as urban heat islands, excessive carbon emissions, and biodiversity loss, posing significant threats to global ecological security and human health. According to the United Nations Environment Programme (UNEP), urban forest ecosystems offer a nature-based, cost-effective solution for ecological conservation. These ecosystems can regulate critical ecological processes, such as warming, carbon cycling, air pollution, and biological invasions through shading, buffering, and the decoupling of the upper and lower canopies, potentially contributing up to 30% of available mitigation measures over the next decade. This Special Issue focuses on the latest research advancements and application outcomes in global urban tree monitoring and ecological protection and restoration.

Guest Editors

Prof. Dr. Lei Wang

College of Landscape Architecture, Northeast Forestry University,
Harbin 150040, China

Prof. Dr. Yunlong Yao

College of Wildlife and Protected Area, Northeast Forestry University,
Harbin 150040, China

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Forests
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
forests@mdpi.com

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Editor-in-Chief

Prof. Dr. Giacomo Alessandro Gerosa

Department of Mathematics and Physics, Catholic University of Brescia,
I-25121 Brescia, Italy

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