



forests

an Open Access Journal by MDPI



Afforestation to Enhance Ecosystem Services and Reduce Negative Impacts

Guest Editors:

Dr. Yanmin Teng

Research Center for Eco-Environmental Engineering,
Dongguan University of Technology, Songshan Lake,
Dongguan 523808, China

Dr. Chao Wang

School of Labor Economics,
Capital University of Economics and Business, Beijing 100089,
China

Prof. Dr. Jinyan Zhan

State Key Laboratory of Water Environment Simulation, School of Environment, Beijing Normal University, Beijing 100875, China

Deadline for manuscript submissions:

closed (31 May 2024)

Message from the Guest Editors

As a nature-based solution, afforestation plays a vital role in combating global warming, land degradation, and biodiversity loss. It is necessary to rationally optimize afforestation patterns and tree species based on input-output analysis, linear programming, machine learning, and other spatial optimization analysis methods by considering the costs and benefits of forest from multiple perspectives, so as to enhance regional ecosystem services and reduce negative impacts.

This Special Issue plans to give an overview of the most recent advances in the field of afforestation pattern optimization and ecological management.

Potential topics include, but are not limited to:

- Forest monitoring and assessment;
- Forest ecosystem functions and services;
- Urban and regional forest spatial pattern optimization;
- Cost and benefit analysis of afforestation;
- Impacts of climate change and human activities on forests;
- Ecological planning and management;
- Model simulation and scenario analysis.



mdpi.com/si/188694

Special Issue



forests



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Cate Macinnis-Ng

Department of Biological Sciences, Faculty of Science, University of Auckland, Private Bag 92019, Auckland 1142, New Zealand

Prof. Dr. Giacomo Alessandro Gerosa

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

Message from the Editorial Board

Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access.

Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, PubAg, AGRIS, PaperChem, and other databases.

Journal Rank: JCR - Q1 (*Forestry*) / CiteScore - Q1 (*Forestry*)

Contact Us

Forests Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/forests
forests@mdpi.com
X@Forests_MDPI