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Tree Stability and Tree Risk Analysis

Guest Editor:

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Deadline for manuscript submissions:
closed (25 April 2023)

Message from the Guest Editor

In cities and towns, trees provide many benefits. However, because they are often near targets, such trees also present risk. Arborists and urban foresters manage tree risk to minimize costs associated with tree failure. Key components of managing tree risk include assessing the likelihood of failure, estimating the severity of consequences to a target if a tree failed, and determining appropriate ways to mitigate risk. We encourage submissions related to these topics, including but not limited to empirical, theoretical, and modeling investigations of the following:

1.Techniques to assess tree stability and likelihood of failure:

1.Assessing loads that induce failure;

2.Assessing load-bearing capacity (including factors that alter load-bearing capacity such as defects and response growth);

2. Intrinsic and extrinsic factors that influence the likelihood of failure;

3. Approaches to and techniques for risk analysis;

4. Approaches to and techniques for risk mitigation;

5. Risk tolerance of tree owners.

We hope that this Special Issue provides a forum for novel insights that will advance the science and practice of tree risk management.

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