CORRIGENDUM TO "TREES AS BRELOT SPACES"

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Some difficulties and errors arose due to the way we dealt with terminal vertices and so some modifications are needed. They are as follows.

In Definition 1.1 (p. 707) in [1], we should have observed that a terminal vertex is an interior point of any subtree S of an infinite tree T that contains it, and therefore we should have defined the boundary of S to be the set consisting of non-terminal vertices that have exactly one neighbor in S.

The boundary of a tree T defined on pp. 707-708 should not include terminal vertices.

In the definition of the Laplacian (p. 708), we should not have excluded terminal vertices. Thus, a function f is harmonic (respectively, superharmonic) at a terminal vertex v if and only if $f(v) = f(w)$ (respectively, $f(v) \geq f(w)$), where w is the unique neighbor of v.

Without the above changes, one would have examples such as

$$f(x) = \begin{cases} 1 & \text{if } x \text{ is non terminal,} \\ 0 & \text{if } x \text{ is terminal.} \end{cases}$$

According to our original definition, the function f is superharmonic, yet it violates the minimum principle.

The definition of $\tilde{T}$ on p. 715 should not exclude terminal vertices.

On p. 722, an open ball centered at the root e of radius n should be thought of as the interior of the corresponding closed ball and thus include terminal vertices of length less than or equal to n.

With the above changes, every result in Sections 1, 2, 3, 5 and 6 holds. However, in Section 4, the assumption that the tree be without terminal vertices is needed.

1. Acknowledgments

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References

[1] I. Bajunaid, J. M. Cohen, F. Colonna, D. Singman, *Trees as Brelot spaces*, Advances in Appl. Math., **30**(2003), 706–745.

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