Abstract

Operational transformation (OT) is an established optimistic consistency control method in collaborative applications. This approach requires correct transformation functions. In general all OT algorithms only consider two character-based primitive operations and hardly two or three of them support string based two primitive operations, insert and delete. In this paper we have proposed a new algorithm MSITDD that consider transformation of two deletions and give right result in all possible cases satisfying user intentions and has removed the faults of previous ITDD[1]. In this paper a comparative study is done of the new proposed algorithm MSITDD with ITDD[1] taking an example and is proved that new proposed algorithm MSITDD is giving right output and ITDD[1] is giving wrong output. It also handles overlapping and splitting of operations when concurrent operations are transformed. These algorithms can be applied in a wide range of practical collaborative applications.
A Transformation based New Algorithm for Transforming Deletions in String Wise Operations for Wide-Area Collaborative Applications

Reference


Index Terms
Key words

Operational transformation
transformation functions
string operations
deletion transformation
collaborative applications