Correspondence

Correction to "Protocol Conversion"

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In giving a summary of the theory of protocol projection, we made an incorrect statement in the above paper. Specifically, the following statement is false:

For the observer to make correct interpretations of temporal formulas (to determine if they are satisfiable by $P$) by observing the behavior of $P'$, it is necessary and sufficient that

$$\text{proj}[S(P)] = S(P').$$

The above is not a necessary and sufficient condition. The correct necessary and sufficient conditions can be found on page 334 of the original paper on protocol projection [1] where they are labeled (F1) and (F2).

Condition (**) is implied by (F1) and (F2) in [1]. Thus, condition (**) is satisfied if the sufficient conditions (A1)–(A3), stated on page 358 of the above paper, are satisfied. Only the sufficient conditions are used in the theoretical development subsequent to the introduction of (**). Therefore, the theory of protocol converters in the above paper is unaffected by the incorrect statement.

Recently, the theory of protocol projection is revisited using a relational notation for system specification. The reader is referred to [2] for a statement of (A3), the condition for well-formed events, in temporal logic.

REFERENCES


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